National Testing Agency

Question Paper Name: 89 Environmental Sciences 5th Dec 2019 Shift 1

Subject Name: 89 Environmental Sciences **Creation Date:** 2019-12-05 14:34:09

Duration:180Total Marks:300Display Marks:Yes

89 Environmental Sciences

Group Number:

Group Id: 61547575

Group Maximum Duration:

Group Minimum Duration:

Revisit allowed for view?:

No
Revisit allowed for edit?:

No
Break time:

Group Marks:

300

PART I General Paper

Section Id: 615475155

Section Number: 1
Section type: Online
Mandatory or Optional: Mandatory

Number of Questions:42Number of Questions to be attempted:42Section Marks:100Display Number Panel:YesGroup All Questions:No

Sub-Section Number: 1

Sub-Section Id: 615475503

Question Shuffling Allowed: Yes

Question Id: 61547511671 Question Type: COMPREHENSION Sub Question Shuffling Allowed: Yes Group Comprehension

Questions: No

Question Numbers: (1 to 5)

Question Label: Comprehension

The table below embodies data on the number of students admitted in three different colleges (A, B and C) during six different years from 2014 to 2019. Based on the data contained in the table, answer the questions 1-5:

Year - Wise Number of Admitted students in different colleges:

Col <u>lege</u> Year	A	В	С	
2014	8000	14000	11000	
2015	15000	17000	13000	
2016	17000	23000	19000	
2017	13000	27000	23000	
2018	22000	26000	24000	
2019	27000	18000	16000	

Sub questions

Question Number: 1 Question Id: 61547511672 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Correct Marks: 2 Wrong Marks: 0

In which college was the number of students admitted in the year 2016 second lowest and the number of students admitted in the year 2018 minimum respectively?

(1) College C and College B

(2) College B and College A

(3) College C and College A

(4) College A and College B

Options:

61547545501.1

61547545502. 2

61547545503.3

61547545504. 4

Question Number : 2 Question Id : 61547511673 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks: 2 Wrong Marks: 0

What is the approximate percent (%) increase in the number of students admitted in college A in the year 2016 as compared to previous year?

(1) 23 %

(2) 123 %

(3) 113 %

(4) 13 %

Options:

61547545505.1

61547545506. 2

61547545507.3

61547545508.4

Question Number: 3 Question Id: 61547511674 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

years			f students admitted in college A overall the admitted in college C in the year 2018 and
(1)	6400	(2)	62000
(3)	64000	(4)	61000
Options	;:		
31547	'545509. 1		
51547	'545510. 2		
51547	'545511. 3		
31547	'545512. 4		
Single I	n Number : 4 Question Id : 61 Line Question Option : No Opt Marks : 2 Wrong Marks : 0		Q Option Shuffling: No Display Question Number: Yes
perce			over all the years was approximately what d in all the three colleges together in the
(1)	168%	(2)	162%
(3)	158%	(4)	175%
Options	i :		
31547	'545513. 1		
31547	'545514. 2		
31547	'545515. 3		
31547	'545516. 4		
Single I	n Number : 5 Question Id : 61 Line Question Option : No Opt Marks : 2 Wrong Marks : 0		Q Option Shuffling: No Display Question Number: Yes
Wha	t is the average numb	er of students admitted	in college A in the year 2015, in college B

in the year 2016, and in college C in the year 2019 together?

(1) 18000

24000 (2)

(3) 17000 (4) 28000

Options:

61547545517. 1

61547545518. 2

61547545519.3

61547545520.4

Question Id: 61547511671 Question Type: COMPREHENSION Sub Question Shuffling Allowed: Yes Group Comprehension Questions: No

Question Numbers: (1 to 5)

Question Label : Comprehension

नीचे दी गई तालिका में तीन अलग-अलग कॉलेजों (A, B और C) में 2014 से 2019 तक अलग-अलग वर्षों में प्रवेश लेने वाले छोत्रों की संख्या संबंधी आकड़े हैं। तालिका में दिए गए आकड़ों के आधार पर प्रश्न सं. 1 से 5 के उत्तर दीजिए :

विभिन्न कालेजों में प्रवेश लेने वाले छात्रों की वर्षवार संख्या :

वर्ष मालेज	A A	В	С	
2014	8000	14000	11000	
2015	15000	17000	13000	
2016	17000	23000	19000	
2017	13000	27000	23000	
2018	22000	26000	24000	
2019	27000	18000	16000	

Sub questions

Question Number: 1 Question Id: 61547511672 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Correct Marks : 2 Wrong Marks : 0

किस कालेज में वर्ष 2016 में प्रवेश लेने वाले छात्रों की संख्या नीचे से दूसरे स्थान एंव वर्ष 2018 में प्रवेश लेने छात्रों की संख्या न्यूतनम है?

(1) कॉलेज C और कॉलेज B

(2) कॉलेज B और कॉलेज A

(3) कॉलेज C और कॉलेज A

(4) कॉलेज A और कॉलेज B

Options:

61547545501.1

61547545502. 2

61547545503.3

61547545504. 4

Question Number : 2 Question Id : 61547511673 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks: 2 Wrong Marks: 0

कॉलेज A में 2016 में प्रवेश लेने वाले छात्रों की संख्या में पिछले वर्ष की तुलना में लगभग कितने प्रतिशत की वृद्धि हुई?

(1) 23 %

(2) 123 %

(3) 113 %

(4) 13 %

Options:

61547545505.1

61547545506. 2

61547545507.3

61547545508. 4

Question Number : 3 Question Id : 61547511674 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Single		otion: No Option Orientation: Vertic		Option Shuffling: No Display Question Number: Yes
		Question Shuffling Allowed:	Yes	
		Sub-Section Number: Sub-Section Id:	2 6154	775504
6154	7545520. 4			
	7545519. 3 7545500. 4			
	7545518. 2 7545510. 2			
	7545517. 1			
Option	ns:			
(3)	17000		(4)	28000
(1)	18000		(2)	24000
	2015 में कालज कुल छात्रों का अ		ालज B म	में प्रवेश लेने वाले और 2019 में कॉलेज C में प्रवेश लेने
Correc	et Marks : 2 Wro	ng Marks : 0		~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~
Questi Single	on Number : 5 Q Line Question Or	uestion Id : 61547511676 Question Ty otion : No Option Orientation : Vertic	ype : MCQ	Option Shuffling: No Display Question Number: Yes
6154	7545516. 4			
	7545515. 3			
6154	7545514. 2			
-	7545513. 1			
Option			(-)	
(3)	158%		(4)	175%
(1)	168%		(2)	162%
की स	ांख्या का लगभग	कितने प्रतिशत था?		
इन स	भी वर्षों में कॉले	ज C में प्रवेश लेने वाले कुल छात्रों	की संख्या	वर्ष 2017 में तीनों कालेजों में प्रवेश लेने वाले कुल छात्र
Single	Line Question Op ct Marks : 2 Wro	otion: No Option Orientation: Vertic	cal	Option Shumming. No Display Question Number . Its
Ouest	on Number : 4 O	wastion Id • 61547511675 Overtion To	me · MCC	Option Shuffling : No Display Question Number : Yes
6154	7545512. 4			
6154	7545511. 3			
6154	7545510. 2			
-	7545509. 1			
Option			, ,	
(3)	64000		(4)	61000
(1)	6400		(2)	62000
11/2	वषा म कालज . अंतर कितना है?		र 2018	से 2019 में कालेज C में प्रवेश लेने वाले कुल छात्रों वे

2, 6, 30, 60, 130, 210 ? (1) 330	W nic	on of the following numbers	wou	na occur ne	ext II	n the series
(3) 370 (4) 378 Options : 51547545521.1 51547545522.2 51547545523.3 51547545524.4 Opestion Number : 6 Question Id : 61547511677 Question Type : MCQ Option Shuffling : No Display Question Number : Yes lingle Line Question Option : No Option Orientation : Vertical Opestion Number : 2 Wrong Marks : 0	2, 6,	30, 60, 130, 210?				
Potions: 51547545521. 1 51547545522. 2 51547545523. 3 51547545524. 4 Question Number: 6 Question Id: 61547511677 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical Correct Marks: 2 Wrong Marks: 0	(1)	330		((2)	350
1547545521. 1 1547545522. 2 1547545523. 3 1547545524. 4 1547545524. 4 1547545525. 1 1547545525. 1 1547545525. 1 1547545525. 1 1547545525. 1 1547545525. 1 1547545525. 1 1547545525. 1 1547545525. 1 1547545525. 1 1547545525. 1 1547545525. 1 1547545525. 1 1547545525. 1 1547545525. 1 1547545525. 1 1547545525. 1 1547545525. 1 1547545525. 2 1547545525. 1 1547545525. 2 1547545525. 1 1547545525. 1 1547545525. 1 1547545525. 1 1547545525. 1 1547545525. 1 1547545525. 1 1547545525. 1 1547545525. 1 1547545525. 1 1547545525. 1 1547545525. 1 1547545525. 1 1547545525. 2 1547545525. 2 1547545525. 2 1547545525. 2 1547545525. 2 1547545525. 2 1547545525. 2 1547545525. 2 1547545525. 2 1547545525. 2 1547545525. 2 1547545525. 2 1547545525. 2 1547545525. 2 1547545525. 2 1547545525. 2 1547545525. 2	(3)	370		((4)	378
Single Line Question Option : No Option Orientation : Vertical Correct Marks : 2 Wrong Marks : 0 निम्निलिखित में से कौन सी संख्या/इस क्रम में अगली संख्या होगी? 2, 6, 30, 60, 130, 210 ? (1)	15475 315475 315475	45522. 2 45523. 3				
2, 6, 30, 60, 130, 210? (1) 330 (2) 350 (3) 370 (4) 378 Options: 31547545521. 1 31547545522. 2 31547545523. 3 31547545524. 4 Question Number: 7 Question Id: 61547511678 Question Type: MCQ Option Shuffling: No Display Question Number: Yes lingle Line Question Option: No Option Orientation: Vertical Correct Marks: 2 Wrong Marks: 0 The compound interest on a certain sum of money for 3 years at the rate of 10% per annum Rs.993.00. The simple interest on the same sum at the rate of 8% per annum for 4 years would be equal to which of the following? (1) Rs. 900.00 (2) Rs. 930.00 Options: 31547545525. 1 31547545526. 2 31547545527. 3	Single Lin	e Question Option: No Option Orientation: Vertical	: MCQ	Option Shuffling: No	o Display	y Question Number : Yes
(1) 330 (2) 350 (3) 370 (4) 378 Deptions: 31547545521. 1 31547545522. 2 31547545523. 3 31547545524. 4 Destion Number: 7 Question Id: 61547511678 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical Correct Marks: 2 Wrong Marks: 0 The compound interest on a certain sum of money for 3 years at the rate of 10% per annum Rs. 993.00. The simple interest on the same sum at the rate of 8% per annum for 4 years would be equal to which of the following? (1) Rs. 900.00 (2) Rs. 930.00 Options: 31547545525. 1 31547545526. 2 31547545527. 3	निम्नी	लेखित में से कौन सी संख्या/इस क्रम	में 3	मगली संख्या हे	ोगी ?	
(3) 370 (4) 378 Options: 51547545521. 1 51547545522. 2 51547545523. 3 51547545524. 4 Option Number: 7 Question Id: 61547511678 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical Correct Marks: 2 Wrong Marks: 0 The compound interest on a certain sum of money for 3 years at the rate of 10% per annum Rs.993.00. The simple interest on the same sum at the rate of 8% per annum for 4 year would be equal to which of the following? (1) Rs. 900.00 (2) Rs. 930.00 Options: 51547545525. 1 51547545526. 2 51547545527. 3	2, 6,	30, 60, 130, 210?				
Options: 31547545521. 1 31547545522. 2 31547545523. 3 31547545524. 4 Question Number: 7 Question Id: 61547511678 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical Correct Marks: 2 Wrong Marks: 0 The compound interest on a certain sum of money for 3 years at the rate of 10% per annum Rs.993.00. The simple interest on the same sum at the rate of 8% per annum for 4 years would be equal to which of the following? (1) Rs. 900.00 (2) Rs. 930.00 (3) Rs. 960.00 (4) Rs. 990.00 Options: 31547545525. 1 31547545526. 2 31547545527. 3	(1)	330			(2)	350
### Standard	(3)	370			(4)	378
Single Line Question Option: No Option Orientation: Vertical Correct Marks: 2 Wrong Marks: 0 The compound interest on a certain sum of money for 3 years at the rate of 10% per annum Rs.993.00. The simple interest on the same sum at the rate of 8% per annum for 4 years would be equal to which of the following? (1) Rs. 900.00 (2) Rs. 930.00 (3) Rs. 960.00 (4) Rs. 990.00 Options: 51547545525. 1 51547545526. 2 51547545527. 3	315475 315475 315475	45522. 2 45523. 3				
Rs.993.00. The simple interest on the same sum at the rate of 8% per annum for 4 year would be equal to which of the following? (1) Rs. 900.00 (2) Rs. 930.00 (3) Rs. 960.00 (4) Rs. 990.00 Options: 31547545525. 1 31547545526. 2 31547545527. 3	Single Lin Correct M	the Question Option: No Option Orientation: Vertical Marks: 2 Wrong Marks: 0			1 10	
would be equal to which of the following? (1) Rs. 900.00 (2) Rs. 930.00 (3) Rs. 960.00 (4) Rs. 990.00 Options: 31547545525. 1 31547545526. 2 31547545527. 3			15	100 E		
(3) Rs. 960.00 (4) Rs. 990.00 Options: 51547545525. 1 51547545526. 2 51547545527. 3			sum	at the rate of	8% pe	r annum for 4 year
Options: 31547545525. 1 31547545526. 2 31547545527. 3	(1)	Rs. 900.00	(2)	Rs. 930.00		
31547545525. 1 31547545526. 2 31547545527. 3	(3)	Rs. 960.00	(4)	Rs. 990.00		
	315475 315475 315475	45526. 2 45527. 3				

 $Question\ Number: 7\ Question\ Id: 61547511678\ Question\ Type: MCQ\ Option\ Shuffling: No\ Display\ Question\ Number: Yes\ Single\ Line\ Question\ Option: No\ Option\ Orientation: Vertical$

Correct Marks: 2 Wrong Marks: 0				
किसी धनराशि पर 10 प्रतिशत वार्षिक चक्रवृद्धि ब्य	ाज की	दर से एव	न वर्ष का ब्य	ाज 993.00 रु. है। उसी धनराशि के लिए
प्रतिशत वार्षिक साधारण ब्याज की दर से 4 वर्ष का	ब्याज :	क्या होगा	?	
(1) 900 v.		(2)	930 रु.	
(3) 960 v.		(4)	990 र ू.	
Options:				
61547545525. 1				
61547545526. 2				
61547545527. 3				
61547545528. 4				
Question Number: 8 Question Id: 61547511679 Ques Single Line Question Option: No Option Orientation: Correct Marks: 2 Wrong Marks: 0	stion Ty : Vertica	pe : MCQ al	Option Shuff	fling: No Display Question Number: Yes
Pointing towards a man, a woman said, "His	s wife'	s father i	s the husba	and of my mother's only
daughter". How is the woman related to th	e man	?		
(1) Daughter	(2)	Sister	in - law	
(3) Sister	(4)	Mother	r - in - law	
Options:				
61547545529. 1				
61547545530. 2				
61547545531. 3				
61547545532. 4				
Question Number: 8 Question Id: 61547511679 Ques Single Line Question Option: No Option Orientation: Correct Marks: 2 Wrong Marks: 0	: Vertica	al		fling: No Display Question Number: Yes
एक व्यक्ति की तरफ इशारा करते हुए एक म	महिला	न कहा	-	
''इनके पत्नी के पिता मेरी माँ के बहन की	इकलौ	ती पुत्री	के पति हैं'	महिला का व्यक्ति से क्या संबंध है
(1) पुत्री			(2)	ननद/भाभी/साली
(3) बहन			(4)	सास
Options:				
61547545529. 1				
61547545530. 2				
61547545531. 3				
61547545532. 4				
Question Number: 9 Question Id: 61547511680 Ques Single Line Question Option: No Option Orientation: Correct Marks: 2 Wrong Marks: 0			Option Shuff	fling: No Display Question Number: Yes

If the word TEACHER is coded as TCJACCV and the word SURGEON is coded as PMGETSU in a certain code language, then which of the following will represent the word CONCORD in that language?

(1) FTQEPQE

(2) EQPEQTF

(3) FPQAPME

(4) EMPAQPF

Options:

61547545533. 1

61547545534. 2

61547545535.3

61547545536. 4

Question Number: 9 Question Id: 61547511680 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Correct Marks: 2 Wrong Marks: 0

यदि TEACHER शब्द को TCJACCV में कूटबद्ध किया जाता है और SURGEON को किसी भाषा के कूट में PMGETSU कहा जाता है तो निम्नलिखित में से कौन उस भाषा के CONCORD का प्रतिनिधित्व करेगा?

(1) FTQEPQE

(2) EQPEQTF

(3) FPQAPME

(4) EMPAQPF

Options:

61547545533.1

61547545534. 2

61547545535.3

61547545536. 4

Question Number: 10 Question Id: 61547511681 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Correct Marks: 2 Wrong Marks: 0

A solid is in the form of a cylinder with hemispherical ends. The diameter of the cylinder is 1/3 of its height (excluding the hemispherical ends). The total length of the solid including the hemispherical ends is 56 cm. What is the surface area of the solid?

(1) 3080 cm²

(2) 2464 cm²

(3) 2772 cm²

(4) 2156 cm²

Options:

61547545537. 1

61547545538. 2

61547545539.3

61547545540. 4

Question Number: 10 Question Id: 61547511681 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

एक ठास	पदार्थ अर्धगोलाद्धीय छोर वाले बेलन के आक	गर में है।	बेल	नन का व्यास अपनी ऊँ	चाई (अर्द्धगोलार्द्धीय छोरो व
छोड़कर)	का 1/3 है। अर्धगोलार्द्धीय छोरों सहित ठोस की	कुल लंबाई	5	6 सेमी है। ठोस पदार्थ क	ग पृष्ठीय क्षेत्र कितना है?
(1)	3080 वर्ग सेमी	(2)	2^{2}	164 वर्ग सेमी	
(3)	2772 वर्ग सेमी	(4)	2	156 वर्ग सेमी	
Options :					
6154754	45537. 1				
6154754	1 5538. 2				
6154754	1 5539. 3				
6154754	15540. 4				
Single Line	Number: 11 Question Id: 61547511682 Question Te e Question Option: No Option Orientation: Vertic arks: 2 Wrong Marks: 0	Type : MC(cal) O	option Shuffling : No Disp	olay Question Number : Yes
Identif	y the communication which is vali	id as do	cu	ımentary evidenc	e from the following
(1)	Written Communication	(2)	Verbal Commun	nication
(3)	Gestural Communication	(4)	Non - verbal Co	mmunication
Options:					
6154754	15541. 1				
6154754	15542. 2				
6154754	15543. 3				
6154754	15544. 4				
Single Line Correct Ma	Number: 11 Question Id: 61547511682 Question To e Question Option: No Option Orientation: Vertic arks: 2 Wrong Marks: 0 से उस संवाद की पहचान किजिए ज	cal			7182 46
(1)	लिखित संवाद			(2)	वाचिक संवाद
(3)	हाव-भाव वाला संवाद			(4)	अवाचिक संवाद
Options: 6154754 6154754 6154754 6154754	15542. 2 15543. 3				

 $Question\ Number: 12\ Question\ Id: 61547511683\ Question\ Type: MCQ\ Option\ Shuffling: No\ Display\ Question\ Number: Yes\ Single\ Line\ Question\ Option: No\ Option\ Orientation: Vertical$

Which of the following groups of electronic scientists has been given in an order chronologically?

- (1) Guglielmo (G.) Marconi, Lumiere Brothers, Lee forest, John Fleming and John Logie Baird
- (2) John Logie Baird, Lumiere Brothers, Guglielmo (G.) Marconi, Lee forest and John Fleming
- (3) Lee forest, John Fleming, Lumiere Brothers, Guglielmo (G.) Marconi and John Logie Baird
- (4) Lumiere Brothers, Guglielmo (G.) Marconi, Lee forest, John Fleming and John Logie Baird

Options:

61547545545.1

61547545546. 2

61547545547.3

61547545548. 4

Question Number: 12 Question Id: 61547511683 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Correct Marks: 2 Wrong Marks: 0

इनमें से इलेक्ट्रानिक वैज्ञानिकों के किस समूह को सही कालक्रम में रखा गया है?

- (1) जी. मारकोनी, लुमियर ब्रदर्स, ली फारेस्ट, जान फलेमिंग, जॉन लोगी बेयर्ड
- (2) जॉन लोगी बेयर्ड, लुमियर ब्रदर्स, जी. मारकोनी, ली फॅारेस्ट और जान फलेमिंग
- (3) ली फॅारेस्ट, जान फलेमिंग, लुमियर ब्रदर्स, जी. मारकोनी, जॉन लोगी बेयर्ड
- (4) लुमियर ब्रदर्स, जी. मारकोनी, ली फॅारेस्ट, जान फलेमिंग और जॉन लोगी बेयर्ड,

Options:

61547545545.1

61547545546. 2

61547545547.3

61547545548. 4

Question Number: 13 Question Id: 61547511684 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Who among the following, first took the initiative for appointing a University Education Commission during pre-independence period?

(1) Lord Curzon

(2) Lord Ripon

(3) Lord Wellesley

(4) Lord Bentick

Options:

61547545549. 1

61547545550. 2

61547545551.3

61547545552. 4

Question Number: 13 Question Id: 61547511684 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Correct Marks: 2 Wrong Marks: 0

स्वतंत्रता पूर्व काल में निम्नलिखित में से किसने विश्वविद्यालय शिक्षा आयोग गठित करने हेतु सबसे पहले पहल की थी?

(1) लार्ड कर्जन

(2) लार्ड रिपन

(3) लार्ड वेल्सले

(4) लार्ड विलियम बेन्टिक

Options:

61547545549.1

61547545550. 2

61547545551.3

61547545552. 4

Question Number: 14 Question Id: 61547511685 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Correct Marks: 2 Wrong Marks: 0

Which one of the following groups of commission on education has been given chronologically in an order of year in which they were constituted?

- (1) Kothari Commission, Mudaliar Commission, Radhakrishnan Commission
- (2) Radhakrishnan Commission, Mudaliar Commission, Kothari Commission
- (3) Mudaliar Commission, Kothari Commission, Radhakrishnan Commission
- (4) Radhakrishnan Commission, Kothari Commission, Mudaliar Commission

Options:

61547545553. 1

61547545554. 2

61547545555.3

61547545556, 4

Question Number: 14 Question Id: 61547511685 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

निम्नलिखित शिक्षा आयोगों के समूहों में से कौन सा समूह इनके गठन के कालक्रम के अनुसार है?

- (1) कोठारी आयोग, मुदालियर आयोग, राधाकृष्णन आयोग
- (2) राधाकृष्णन आयोग, मुदालियर आयोग, कोठारी आयोग
- (3) मुदालियर आयोग, कोठारी आयोग, राधाकृष्णन आयोग
- (4) राधाकृष्णन आयोग, कोठारी आयोग, मुदालियर आयोग

Options:

61547545553.1

61547545554. 2

61547545555.3

61547545556. 4

Question Number: 15 Question Id: 61547511686 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Correct Marks: 2 Wrong Marks: 0

Which one of the following is signified by the term 'hetu' in the process of anumāna (inference) in classical Indian School of Logic?

(1) Example Provided

(2) Statement of reason

(3) Proposition to be proved

(4) Conclusion Proved

Options:

61547545557.1

61547545558. 2

61547545559. 3

61547545560. 4

Question Number: 15 Question Id: 61547511686 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Correct Marks: 2 Wrong Marks: 0

निम्नलिखित में से क्या भारतीय तर्कशास्त्र की शास्त्रीय विचारधारा के अनुसार अनुमान (निष्कर्ष) की प्रक्रिया में 'हेतु' पद को व्यक्त करता है?

(1) प्रस्तुत उदाहरण

(2) कारण का कथन

(3) सिद्ध करने हेतु प्रस्थापना

(4) सिद्ध निष्कर्ष

Options:

61547545557.1

61547545558. 2

61547545559.3

Question Number: 16 Question Id: 61547511687 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Correct Marks: 2 Wrong Marks: 0

Assumption of an unperceived fact in order to reconcile two apparently inconsistent perceived facts is known in Indian Logic as:

(1) Anumāna (Inference)

- (2) Upamāna (Comparison)
- (3) Arthāpatti (Implication)

(4) Anupalabdhi (Non-apprehension)

Options:

61547545561.1

61547545562. 2

61547545563.3

61547545564. 4

Question Number: 16 Question Id: 61547511687 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Correct Marks: 2 Wrong Marks: 0

प्रत्यक्ष रूप से असंगत दो प्रत्यक्षीकृत तथ्यों के समायोजन हेतु अप्रत्यक्षीकृत तथ्यों की अन्तनिर्हित मान्यता को भारतीय तर्कशास्त्र में क्या संज्ञा दी जाती है?

अनुमान

(2) उपमान

(3) अर्थापत्ति

(4) अनुपलब्धि

Options:

61547545561.1

61547545562. 2

61547545563.3

61547545564. 4

 $Question\ Number: 17\ Question\ Id: 61547511688\ Question\ Type: MCQ\ Option\ Shuffling: No\ Display\ Question\ Number: Yes\ Single\ Line\ Question\ Option: No\ Option\ Orientation: Vertical$

Correct Marks: 2 Wrong Marks: 0

Which one of the following combination of propositions is considered to be contraries in the classical square of opposition?

- (1) Universal affirmative and universal negative
- (2) Universal affirmative and particular affirmative
- (3) Particular affirmative and universal negative
- (4) Particular affirmative and particular negative

Options:

61547545565. 1

61547545566, 2

61547545567.3

61547545568. 4

Question Number: 17 Question Id: 61547511688 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Correct Ma	arks: 2 Wrong Marks: 0					
	तुरस्र के शास्त्रीय चिंतन में निम्नलिखित में से किन प्रस्थापनाः	ओं के संय	गोजन को	विरोधाभासी माना जाता है?		
(1)	सार्वभौमिक अस्तिवाचक और सार्वभौमिक निषेधक					
(2)	सार्वभौमिक अस्तिवाचक और विशेष अस्तिवाचक					
(3)	विशेष अस्तिवाचक और सार्वभौमिक निषेधक					
(4)	विशेष अस्तिवाचक और विशेष निषेधक					
Options: 6154754 6154754 6154754 6154754	.5566. 2 .5567. 3					
Single Line	fumber: 18 Question Id: 61547511689 Question Type: MCQ Option e Question Option: No Option Orientation: Vertical arks: 2 Wrong Marks: 0	on Shuffling	g : No Disp	lay Question Number : Yes		
Whic	h one of the following is not a part of im	nmedia	ate dec	luctive inference?		
(1)	Conversion	(2)	Obve	rsion		
(3)	Syllogism	(4)	Cont	raposition		
Options: 6154754 6154754 6154754	.5570. 2 .5571. 3					
Single Line	Tumber: 18 Question Id: 61547511689 Question Type: MCQ Option Question Option: No Option Orientation: Vertical Carks: 2 Wrong Marks: 0	on Shuffling	g : No Disp	lay Question Number : Yes		
निम्नित	नखित में से क्या निगमनात्मक अनुमान का भाग	नहीं है	?			
(1)	परिवर्तन		(2)	प्रतिवर्तन		
(3)	न्यायवाक्य		(4)	प्रतिपरिवर्तन		
Options: 6154754 6154754 6154754 6154754	.5570. 2 .5571. 3					

 $Question\ Number: 19\ Question\ Id: 61547511690\ Question\ Type: MCQ\ Option\ Shuffling: No\ Display\ Question\ Number: Yes\ Single\ Line\ Question\ Option: No\ Option\ Orientation: Vertical$

Which one of the following factors does not contribute to learning mathematical concepts

- (1) Real life events
- (2) Assessing the existing mathematical knowledge of the learner before deciding the syllabi
- (3) Teaching mathematics and history together
- (4) Narrating the life experiences of the mathematician who has given the concept

Options:

61547545573.1

61547545574. 2

61547545575.3

61547545576. 4

 $Question\ Number: 19\ Question\ Id: 61547511690\ Question\ Type: MCQ\ Option\ Shuffling: No\ Display\ Question\ Number: Yes\ Single\ Line\ Question\ Option: No\ Option\ Orientation: Vertical$

Correct Marks: 2 Wrong Marks: 0

गणितीय अवधारणाओं के अधिगम में निम्नलिखित में से किस कारक का योगदान नहीं होता है?

- (1) जीवन की वास्तविक घटनायें
- (2) पाठ्यक्रम के निर्धारण के पूर्व अधिगम कर्ताओं में विद्यमान गणितीय ज्ञान का मूल्यांकन
- (3) गणित और इतिहास एक साथ पढाना
- (4) अवधारणा के प्रतिपादक गणितज्ञ के जीवन अनुभवों का वर्णन

Options:

61547545573. 1

61547545574. 2

61547545575.3

61547545576. 4

Question Number : 20 Question Id : 61547511691 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks: 2 Wrong Marks: 0

Which among the following is NOT an alternative to traditional assessments?

- (1) Multiple Choice Questions
- (2) Performance Test

(3) Portfolios

(4) Exhibitions

Options:

61547545577. 1

61547545578. 2

61547545579. 3

61547545580. 4

Question Number : 20 Question Id : 61547511691 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

निम्ना	लेखित में से कौन पारपरिक मूत	ल्याकन का ए	क विकल्प नहीं है?	
(1)	बहु विकल्पीय प्रश्न		(2)	कार्यनिष्पादन परीक्षण
(3)	पोर्टफोलियो		(4)	प्रदर्शनियां
Options : 615475	: 545577. 1			
615479	545578. 2			
	545579. 3			
	545580. 4			
Single Li	Number: 21 Question Id: 61547511692 Quine Question Option: No Option Orientation Marks: 2 Wrong Marks: 0	uestion Type : MC a : Vertical	Q Option Shuffling: No Dis	splay Question Number : Yes
	lege teacher conducts a quiz ses cipation. This will form part of w			e tempo of motivational
(1)	Summative evaluation	(2)	Criterion based eva	aluation
(3)	Formative evaluation	(4)	Diagnostic evaluat	ion
Options : 615475	: 545581. 1			
615479	545582. 2			
615475	545583. 3			
615475	545584. 4			
Single Li Correct	Number : 21 Question Id : 61547511692 Quine Question Option : No Option Orientation Marks : 2 Wrong Marks : 0 हाविद्यालय का शिक्षक अभिप्रेरक प्रतिभाग	: Vertical		
मूल्यांव	नन के किस प्रकार के रूप में लिया जाएगा?			
(1)	संकलनात्मक मूल्यांकन	(2)	निकष-आधारित मूल्यांकन	ſ
(3)	निर्माणात्मक मूल्यांकन	(4)	निदानात्मक मूल्यांकन	
Options :	: 545581. 1			
	545582. 2			
	545583. 3			
6154/5	545584. 4			
Single Li	Number: 22 Question Id: 61547511693 Quine Question Option: No Option Orientation Marks: 2 Wrong Marks: 0		Q Option Shuffling: No Dis	splay Question Number : Yes
Whiel	h among the following is NOT th	e principle as	ssociated with Positiv	rism?
(1)	Phenomenalism	(2)	Deductivism	
(3)	Inductivism	(4)	Interpretivism	

Options:

61547545585.1

61547545586. 2

61547545587.3

61547545588. 4

Question Number : 22 Question Id : 61547511693 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 2 Wrong Marks : 0

निम्नलिखित में से कौन सा सिद्धांत प्रत्यक्षवाद से संबंधित नहीं है?

(1) परिघटनात्मकता

(2) निगमनात्मकता

(3) आगमनात्मकता

(4) व्याख्यात्मकता

Options:

61547545585. 1

61547545586. 2

61547545587.3

61547545588. 4

Question Number: 23 Question Id: 61547511694 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Correct Marks: 2 Wrong Marks: 0

In grounded theory, researchers collect data using theoretical sampling until theoretical saturation is achieved. This process can be summarized in the following sequence.

- (1) Sample theoretically decided → Collect data → Analyse data → Theoretical Saturation
- (2) General research question → Collect data → Sample theoretically decided → Analyse data → Theoretical Saturation
- (3) Sample theoretically decided → General research question → Collect data → Theoretical Saturation
- (4) General research question \rightarrow Sample theoretically decided \rightarrow Collect data \rightarrow Analyse data \rightarrow Theoretical Saturation

Options:

61547545589.1

61547545590. 2

61547545591.3

61547545592. 4

Question Number : 23 Question Id : 61547511694 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

आधारिक सिद्धांत में शोधकर्त्ता सैद्धांतिक संतृप्ति होने तक सैद्धांतिक प्रतिचयन के प्रयोग द्वारा डाटा संग्रहण करते हैं. इस प्रक्रिया को निम्नलिखित क्रम में दर्शाया जा सकता है:

- (1) सैद्धांतिक प्रतिदर्श \rightarrow डाटा संग्रह \rightarrow डाटा विश्लेषण \rightarrow सैद्धांतिक संतृप्ति
- (2) समान्य शोध प्रश्न \rightarrow डाटा संग्रह \rightarrow सैद्धांतिक प्रतिदर्श \rightarrow डाटा विश्लेषण \rightarrow सैद्धांतिक संतृप्ति
- (3) सैद्धांतिक प्रतिदर्श \to समान्य शोध प्रश्न \to डाटा संग्रह \to सैद्धांतिक संतृप्ति
- (4) समान्य शोध प्रश्न ightarrow सैद्धांतिक प्रतिदर्श ightarrow डाटा संग्रह ightarrow डाटा विश्लेषण ightarrow सैद्धांतिक संतृप्ति

Options:

61547545589. 1

61547545590. 2

61547545591.3

61547545592. 4

Question Number : 24 Question Id : 61547511695 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks: 2 Wrong Marks: 0

Identify the ways that would be followed by a public sector organization to communicate with public by organizing an open house :

- (a) Publicity
- (b) Lobbying
- (c) Public relations
- (d) Image building

Choose the correct option:

- (1) (a), (c) and (d)
- (2) (b), (c) and (d)
- (3) (a), (b) and (d)
- (4) (a), (b) and (c)

Options:

61547545593.1

61547545594. 2

61547545595.3

61547545596. 4

 $Question\ Number: 24\ Question\ Id: 61547511695\ Question\ Type: MCQ\ Option\ Shuffling: No\ Display\ Question\ Number: Yes\ Single\ Line\ Question\ Option: No\ Option\ Orientation: Vertical$

'ओपेन हाउस' के आयोजन के माध्यम से जनता से संवाद के लिए किसी सार्वजनिक क्षेत्र के संगठन द्वारा निम्नलिखित में से किन तरीकों का प्रयोग किया जाता है?

- (a) प्रचार
- (b) लाबिंग
- (c) जन संपर्क
- (d) छवि निर्माण

सही विकल्प का चयन करें :

- (1) (a), (c) और (d)
- (2) (b), (c) और (d)
- (3) (a), (b) और (d)
- (4) (a), (b) और (c)

Options:

61547545593.1

61547545594. 2

61547545595.3

61547545596. 4

Question Number: 25 Question Id: 61547511696 Question Type: MCQ Option Shuffling: No Display Question Number: Yes

Single Line Question Option: No Option Orientation: Vertical

Choose the institutions which are not authorized to confer degree according to UGC Act 1956:

- (a) Institutions established under linguistic minority
- (b) Deemed to be Universities
- (c) Constituent Colleges
- (d) Affiliated Colleges

Choose the correct option:

- (1) (a), (b) and (d) only
- (2) (a), (b) and (c) only
- (3) (b), (c) and (d) only
- (4) (a), (c) and (d) only

Options:

61547545597.1

61547545598. 2

61547545599.3

61547545600.4

Question Number : 25 Question Id : 61547511696 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

ऐसे संस्थानों का चयन कीजिए जिन्हें यूजीसी अधिनियम 1956 के अनुसार डिग्री प्रदान करने के लिए प्राधिकृत नहीं किया गया है?

- (a) भाषायी अल्पसंख्यक के अधीन स्थापित संस्थान
- (b) मानित विश्व विद्यालय
- (c) संघटक कॉलेज
- (d) संबद्ध कॉलेज

सही विकल्प का चयन करें :

- (1) (a), (b) और (d) केवल
- (2) (a), (b) और (c) केवल
- (3) (b), (c) और (d) केवल
- (4) (a), (c) और (d) केवल

Options:

61547545597. 1

61547545598. 2

61547545599. 3

61547545600.4

Question Number : 26 Question Id : 61547511697 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks: 2 Wrong Marks: 0

Which of the following statements is/are correct in the context of 'Digital India' Initiative of Government of India?

- (a) National Digital Library of India (NDL India) is a 24 × 7 online store house of all academic awards duly digitized and lodged by academic institutions.
- (b) National Academic Depository (NAD) is an all digital library that stores information (metadata) about different types of digital contents relevant to the citizens.

Choose the correct option:

(1) (a) only

(2) (b) only

(3) Both (a) and (b)

(4) Neither (a) nor (b)

Options:

61547545601.1

61547545602. 2

61547545603.3

61547545604. 4

Question Number : 26 Question Id : 61547511697 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks: 2 Wrong Marks: 0

भारत सरकार के 'डिजिटल इंडिया' पहल के परिप्रेक्ष्य में निम्नलिखित में से कौन कथन सही है/हैं?

- (a) भारतीय राष्ट्रीय डिजिटल पुस्तकालय (एन डी एल इंडिया) अकादिमक संस्थानों में संग्रहित विधिवत डिजिटीकृत समस्त अकादिमक पुस्तकारों का एक 24 × 7 ऑनलाइन भंडार कोष है।
- (b) राष्ट्रीय अकादिमक निक्षेपागार (एन ए डी) एक पूर्ण रूप से डिजिटल पुस्तकालय है जिसमें नागरिकों के लिए प्रासंगिक विभिन्न प्रकार की डिजिटल विषय-वस्तु से संबंधित सूचना (मेटा डाटा) का भंडारण होता है।

सही विकल्प चुनिए:

(1) केवल (a)

(2) केवल (b)

(3) (a) और (b) दोनों

(4) न तो (a) और न ही (b)

Options:

61547545601.1

61547545602. 2

61547545603.3

61547545604. 4

Question Number : 27 Question Id : 61547511698 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks: 2 Wrong Marks: 0

Which of the following statements is / are correct?

- (a) WWW is a network of networks that first started with four computer nodes.
- (b) WWW is a service that runs on the Internet.

Choose the correct option:

(1) (a) only

(2) (b) only

(3) Both (a) and (b)

(4) Neither (a) nor (b)

Options:

61547545605.1

61547545606. 2

61547545607.3

61547545608. 4

Question Number : 27 Question Id : 61547511698 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

निम्नलिखित में से कौन कथन सही है/हैं?

- (a) www नेटवर्कों का एक नेटवर्क है जो प्रथमतः चार कंप्यूटर नोडों के साथ शुरु हुआ था।
- (b) www इंटरनेट पर चलने वाली एक सेवा है।

सही विकल्प चुनिए:

(1) केवल (a)

(2) केवल (b)

(3) (a) और (b) दोनों

(4) न तो (a) और न ही (b)

Options:

61547545605.1

61547545606. 2

61547545607. 3

61547545608. 4

Question Number : 28 Question Id : 61547511699 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks: 2 Wrong Marks: 0

Academic performance of students is determined by:

- (a) Intelligence
- (b) Motivation
- (c) Physique
- (d) Gender
- (1) (a) and (b) only

(2) (a) and (d) only

(3) (b) and (c) only

(4) (c) and (d) only

Options:

61547545609.1

61547545610. 2

61547545611.3

61547545612. 4

Question Number : 28 Question Id : 61547511699 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

विद्यार्थि	र्थयों का अकादमिक निष्पादन किससे निर्धा	रित होता है?	
(a)	प्रज्ञा		
(b)	अभिप्रेरण		
(c)	शारीरिक गठन		
(d)	लिंग		
(1)	केवल (a) और (b)	(2)	केवल (a) और (d)
(3)	केवल (b) और (c)	(4)	केवल (c) और (d)
Single Line	45610. 2 45611. 3 45612. 4 Number: 29 Question Id: 61547511700 Question Type: MCC e Question Option: No Option Orientation: Vertical	Q Option Shuffling : No Dis	play Question Number : Yes
	arks:2 Wrong Marks:0 ead of forest fires is influenced b	у	
(a)	Slope		
(b)	Soil Moisture		
(c)	Wind		
Choo	ose the correct answer from the	options given	below:
(1)	(a) and (b) only	(2)	(b) and (c) only
(3)	(a) and (c) only	(4)	(a), (b) and (c)
Options: 3154754 3154754 3154754 3154754	45614. 2 45615. 3		
Single Line	Number: 29 Question Id: 61547511700 Question Type: MCC e Question Option: No Option Orientation: Vertical	Q Option Shuffling: No Dis	play Question Number : Yes

जंगलों की आग किससे प्रभावित होती है?

- (a) ढलान
- (b) भूमि की नमी
- (c) वायु

निम्नलिखित में से सही विकल्प चुनें :

(1) केवल (a) और (b)

(2) केवल (b) और (c)

(3) केवल (a) और (c)

(4) (a), (b) और (c)

Options:

61547545613.1

61547545614. 2

61547545615.3

61547545616. 4

Question Number : 30 Question Id : 61547511701 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks: 2 Wrong Marks: 0

Given below is question (Q) followed by three statements. Identify the statements (a, b, c) that are necessary to answer the question.

Question: What is the average age of 30 students studying in a class?

- (a) Boys and girls in the class are in the ratio 7:8
- (b) The average age of boys and girls is 12.2 years and 11.4 years, respectively.
- (c) The number of boys in the class is two less than the number of the girls in the class.

Choose the correct option from those given below:

- (1) (a) and (b) only
- (2) (b) and (c) only
- (3) (a) and (c) only
- (4) (b) and either (a) or (c)

Options:

61547545617.1

61547545618. 2

61547545619.3

61547545620. 4

Question Number : 30 Question Id : 61547511701 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks: 2 Wrong Marks: 0

नीचे एक प्रश्न दिया गया है और उसके बाद तीन कथन दिए गए हैं। उन कथनों $(a,\,b,\,c)$ की पहचान करें जो प्रश्न का उत्तर देने के लिए आवश्यक हैं:

प्रश्न : एक कक्षा में अध्ययन करने वाले 30 छात्रों की औसत उम्र क्या है?

- (a) कक्षा में लड़के और लड़कियाँ 7 : 8 अनुपात में है
- (b) लड़के और लड़कियों की औसत आयु क्रमशः 12.2 वर्ष और 11.4 वर्ष है
- (c) कक्षा में लड़कों की संख्या कक्षा में लड़कियों की संख्या की तुलना में दो कम है।

सही विकल्प का चयन करें :

- (1) केवल (a) और (b)
- (2) केवल (b) और (c)
- (3) केवल (a) और (c)
- (4) (b) और (a) या (c)

Options:

61547545617.1

61547545618. 2

61547545619.3

61547545620. 4

Question Number : 31 Question Id : 61547511702 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Consider the following statements with reference to categorical propositions:

- (a) "Some birds are mammals" is a particular affirmative proposition and it distributes subject term alone.
- (b) "Some birds are mammals" is a particular affirmative proposition and it distributes predicate term alone.
- (c) "Some birds are mammals" is a particular affirmative proposition and it distributes both subject and predicate terms.
- (d) "Some birds are mammals" is a particular affirmative proposition and it distributes neither subject term nor predicate term.

Choose the correct option from below:

- (1) Only (a) and (d) are correct
- (2) Only (c) and (d) are correct
- (3) Only (b) is correct
- (4) Only (d) is correct

Options:

61547545621.1

61547545622. 2

61547545623.3

61547545624. 4

Question Number: 31 Question Id: 61547511702 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

angle zine Question option (110 option offentation (vertical

निरुपाधिक प्रतिज्ञप्ति के संदर्भ में निम्नलिखित कथनों पर विचार कीजिए : ''कुछ पक्षी स्तनपायी हैं'' एक विशिष्ट अस्तिवाचक प्रस्थापना है और यह केवल उद्देश्य पद को ही वितरित करता है। (a) "कुछ पक्षी स्तनपायी हैं" एक विशिष्ट अस्तिवाचक प्रस्थापना है और यह केवल विधेय को ही वितरित करता है। (b) ''कुछ पक्षी स्तनपायी हैं'' एक विशिष्ट अस्तिवाचक प्रस्थापना है और यह उद्देश्य तथा विधेय दोनों पदों को वितरित

(c) करता है।

''कुछ पक्षी स्तनपायी हैं'' एक विशिष्ट अस्तिवाचक प्रस्थापना है और यह न तो उद्देश्य और न ही विधेय दोनों पद को (d) वितरित करता है।

निम्नलिखित में से सही कूट का चयन कीजिए :

- केवल (a) और (d) सही हैं (1)
- केवल (c) और (d) सही हैं (2)
- केवल (b) सही है (3)
- केवल (d) सही है (4)

Options:

61547545621. 1

61547545622. 2

61547545623.3

61547545624. 4

Question Number: 32 Question Id: 61547511703 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Correct Marks: 2 Wrong Marks: 0

In a group setting which of the following factors hinder creativity of its members?

- Norm to maintain consensus at any cost (a)
- To think without any fear of being ridiculed (b)
- To respect one another's ideas (c)
- To criticize if somebody's idea is not correct (d)

Choose the correct option:

(a) and (c) only (b) and (d) only (1)

(c) and (b) only (d) and (a) only (3)(4)

Options:

61547545625. 1

61547545626, 2

61547545627.3

61547545628. 4

किसी समूह में निम्नलिखित में से किसके कारण समूह के सदस्यों की सृजन-क्षमता अवरूद्ध होती है?

- (a) किसी भी कीमत पर आम सहमति बनाए रखने का प्रतिमान
- (b) हास्य का पात्र बनने के भय से मुक्त चिंतन
- (c) एक दूसरे के विचार के प्रति आदर
- (d) किसी व्यक्ति का विचार असत्य होने की दशा में आलोचना

सही विकल्प चुनिए:

(1) केवल (a) और (c)

(2) केवल (b) और (d)

(3) केवल (c) और (b)

(4) केवल (d) और (a)

Options:

61547545625.1

61547545626. 2

61547545627. 3

61547545628. 4

Question Number: 33 Question Id: 61547511704 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Correct Marks: 2 Wrong Marks: 0

Which two among the following factors are responsible for transgression of ethical principle in research?

- (a) Harm to the participants
- (b) Lack of informed consent
- (c) Not greeting the participants after the experiment is over
- (d) Asking difficult questions

Choose the correct option:

(1) (a) and (c) only

(2) (b) and (c) only

(3) (a) and (d) only

(4) (a) and (b) only

Options:

61547545629. 1

61547545630. 2

61547545631.3

61547545632. 4

Question Number : 33 Question Id : 61547511704 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

शोध में नैतिक सिद्धांत के उल्लंघन के लिए उत्तरदायी दो तत्व कौन से हैं?

- (a) प्रतिभागियों को क्षति
- (b) संसूचित सहमति का अभाव
- (c) प्रयोग पूरा होने के उपरांत प्रतिभागियों का स्वागत नहीं करना
- (d) दूरूह प्रश्न पूछना

सही विकल्प चुनिए:

(1) केवल (a) और (c)

(2) केवल (b) और (c)

(3) केवल (a) और (d)

(4) केवल (a) और (b)

Options:

61547545629.1

61547545630.2

61547545631.3

61547545632. 4

Question Number : 34 Question Id : 61547511705 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks: 2 Wrong Marks: 0

Which of the following activities are performed by the researcher in an ethnographic research?

- (a) Conducts structured interview with the members of the community
- (b) Gets immersed in a social setting for an extended period of time
- (c) Listens to and engages in conversation
- (d) Tries to educate people about the harms of some evil practices

Choose the correct answer:

- (1) (a) and (b) only
- (2) (a) and (c) only
- (3) (b) and (d) only
- (4) (b) and (c) only

Options:

61547545633.1

61547545634. 2

61547545635. 3 61547545636. 4

Question Number: 34 Question Id: 61547511705 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Option: Vertical

Single Line Question Option: No Option Orientation: Vertical

Correct Marks: 2 Wrong Marks: 0

नृजातीय शोध में शोधकर्ता द्वारा निम्नलिखित में से कौन से कार्यकलाप किये जाते हैं?

- (a) शोधकर्ता समुदाय के सदस्यों के साथ संरचनाबद्ध साक्षात्कार करता है।
- (b) शोधकर्ता काफी लंबी समयावधि तक सामाजिक व्यवस्था को अंगीकार कर लेता है।
- (c) शोधकर्ता वार्तालाप का श्रवण करता है और वार्तालाप करता है।
- (d) शोधकर्ता लोगों को कुछ कुप्रथाओं के बारे में जानकारी देता है।

सही विकल्प चुनिए:

- (1) केवल (a) और (b)
- (2) केवल (a) और (c)
- (3) केवल (b) और (d)
- (4) केवल (b) और (c)

Options:

61547545633.1

61547545634. 2

61547545635.3

61547545636. 4

Question Number: 35 Question Id: 61547511706 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Single Line Question Option : No Option Orientation : Vertical

Match correctly the items of column I with the items of column II

Column I

- (a) Dyslexia
- (b) Dysgraphia
- (c) Dyscalculia
- (d) ADHD
- (1) (a)-(i), (b)-(iii), (c)-(iv), (d)-(ii)
- (2) (a)-(ii), (b)-(iii), (c)-(i), (d)-(iv)
- (3) (a)-(iv), (b)-(i), (c)-(iii), (d)-(ii)
- (4) (a)-(i), (b)-(iv), (c)-(ii), (d)-(iii)

Options:

61547545637. 1

61547545638. 2

61547545639.3

61547545640. 4

Column II

- (i) Difficulty in doing mathematics
- (ii) Difficulty in reading
- (iii) Difficulty in writing
- (iv) Difficulty in concentrating

 $Question\ Number: 35\ Question\ Id: 61547511706\ Question\ Type: MCQ\ Option\ Shuffling: No\ Display\ Question\ Number: Yes\ Single\ Line\ Question\ Option: No\ Option\ Orientation: Vertical$

कालम - \mathbf{I} को कालम - \mathbf{II} के साथ सुमेलित कीजिए :

कालम - I

कालम - II

(a) वाचन वैकल्य

(i) गणित के कार्य में कठिनाई

(b) लेखन वैकल्य

(ii) पठन में कठिनाई

(c) परिकलन वैकल्य

(iii) लेखन में कठिनाई

(d) एडी एचडी

(iv) ध्यान केन्द्रित करने में कठिनाई

सही विकल्प का चयन करें :

Options:

61547545637.1

61547545638. 2

61547545639. 3

61547545640. 4

Question Number: 36 Question Id: 61547511707 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Single Line Question Option . No Option Orientation . Vertical

Match the following communication channels with their distinguishing type:

(Communication Channel)

(Distinguishing Type)

(a) Blogging

(i) Electronic Media

(b) Television

(ii) Print Media

(c) Periodicals

(iii) Social Media

(d) Collection sites

(iv) World wide web

Choose the correct option from those given below:

Options:

61547545641.1

61547545642. 2

61547545643.3

61547545644. 4

Question Number: 36 Question Id: 61547511707 Question Type: MCQ Option Shuffling: No Display Question Number: Yes

Single Line Question Option : No Option Orientation : Vertical

निम्नलिखित संचार चैनलों को इनकी विशेषता के आधार पर सुमेलित कीजिए :

(a) ब्लॉगिंग

(i) इलेक्ट्रानिक मीडिया

(b) टेलीविजन

(ii) प्रिंट मीडिया

(c) पत्रिकाएं

(iii) सोशल मीडिया

(d) कलेक्शन साइट्स

(iv) बर्ल्ड वाइड वेब

नीचे दिए गए विकल्पों में से किसी एक का चयन करें :

Options:

61547545641.1

61547545642. 2

61547545643.3

61547545644. 4

 $Question\ Number: 37\ Question\ Id: 61547511708\ Question\ Type: MCQ\ Option\ Shuffling: No\ Display\ Question\ Number: Yes\ Single\ Line\ Question\ Option: No\ Option\ Orientation: Vertical$

Match the following classes of chemicals with their descriptions:

(Chemical Class)

- (a) Allergens
- (b) Mutagens
- (c) Carcinogens
- (d) Teratogens

(Description)

- Chemicals that alter or damage the (i) genetic material (DNA) cells
- (ii) Substances that activate the immune system
- Chemicals that specifically cause abnormalities during embryonics growth and development.
- Substances that cause invasive out of control cell growth resulting in malignant tumors.

Choose the most appropriate option from those given below:

- (1) (a)-(iii), (b)-(iv), (c)-(i), (d)-(ii)
- (2)(a)-(iv), (b)-(iii), (c)-(ii), (d)-(i)
- (3)(a)-(ii), (b)-(i), (c)-(iv), (d)-(iii)
- (4) (a)-(iii), (b)-(i), (c)-(ii), (d)-(iv)

Options:

61547545645.1

61547545646. 2

61547545647.3

61547545648. 4

Question Number: 37 Question Id: 61547511708 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Correct Marks: 2 Wrong Marks: 0

रसायनों की निम्नलिखित श्रेणियों को उनके वर्णन के अनुसार सुमेलित कीजिए :

(रसायन श्रेणी)

(विवरण)

एलरजेन (a)

(i) कोशिकाओं में आनुवंशिक तत्वों (डीएनए) में बदलाव या क्षति पहुँचाने वाले रसायन

म्यटाजेन (b)

(ii) प्रतिरोध प्रणाली को सक्रिय करने वाले पदार्थ

कार्सिनोजेन्स (c)

(iii) भ्रूण की वृद्धि और विकास के दौरान विशेष रूप से असामान्यता पैदा करने वाले रसायन

(d) टेराटोजेन

(iv) ऐसे पदार्थ जिनसे कोशिका में आक्रामक अनियंत्रित वृद्धि होती है जिस कारण विषाल ट्रयमर हो जाता है।

नीचे दिये गए विकल्पों में से सर्वाधिक उपयुक्त विकल्प का चयन करें :

- (a)-(iii), (b)-(iv), (c)-(i), (d)-(ii) (1)
- (a)-(iv), (b)-(iii), (c)-(ii), (d)-(i) (2)
- (a)-(ii), (b)-(i), (c)-(iv), (d)-(iii) (3)
- (4)(a)-(iii), (b)-(i), (c)-(ii), (d)-(iv)

Options:

61547545645. 1

61547545646, 2

61547545647.3

61547545648.4

Question Number : 38 Question Id : 61547511709 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks: 2 Wrong Marks: 0

Match List - I with List - II

List I

(i) 0110010 in binary

(a) 50 in decimal

.... 110011

(b) 102 in decimal

(ii) 1100110 in binary

(c) Real – Time video conferencing

(iii) Synchronous communication

(d) SMS texting

(iv) Asynchronous communication

List II

Choose the correct option:

Options:

61547545649.1

61547545650, 2

61547545651.3

61547545652. 4

Question Number : 38 Question Id : 61547511709 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

सूची - I को सूची - II दो से सुमेलित कीजिए:

सूची - I

सूची हु II

(a) दशमलव में 50

(i) द्विभाजी में 0110010

(b) दशमलव में 102

(ii) द्विभाजी में 1100110

(c) लाइव वीडियो कॉन्फ्रेंसिंग

(iii) समकालिक संचार

(d) एस एम एस संदेश

(iv) विषमकालिक संचार

सही विकल्प चुनें :

(1) (a)-(ii), (b)-(i), (c)-(iii), (d)-(iv)

(2) (a)-(ii), (b)-(i), (c)-(iv), (d)-(iii)

(3) (a)-(i), (b)-(ii), (c)-(iii), (d)-(iv)

(4) (a)-(i), (b)-(ii), (c)-(iv), (d)-(iii)

Options:

61547545649.1

61547545650. 2

61547545651.3

61547545652. 4

Question Number : 39 Question Id : 61547511710 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Match correctly the contribution / concept of Column II with the names of the thinkers given in Column I

Column I

- (a) Karl Popper
- (b) T.S. Kuhn
- (c) Paul Feyerabend
- (d) Francis Bacon

Column II

- (i) Inductive method
- (ii) Against the method
- (iii) Paradigm
- (iv) Falsification

Select appropriate option:

- (1) (a)-(ii), (b)-(iii), (c)-(i), (d)-(iv)
- (2) (a)-(iii), (b)-(i), (c)-(iv), (d)-(ii)
- (3) (a)-(iv), (b)-(iii), (c)-(ii), (d)-(i)
- (4) (a)-(iv), (b)-(iii), (c)-(i), (d)-(ii)

Options:

61547545653. 1

61547545654. 2

61547545655.3

61547545656. 4

Question Number : 39 Question Id : 61547511710 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

स्तंभ II में दिए गए योगदान/संकल्पना को स्तंभ I में उल्लिखित चिंतकों के साथ सुमेलित कीजिए :

स्तंभ - I

स्तंभ - II

(a) कार्ल पॉपर

(i) आगमनात्मक प्रविधि

(b) टी. एस. कुन

(ii) विधि के प्रविरूद्ध

(c) पॉल फेयराबेंड

(iii) रूपावली

(d) फ्रांसिस बॅकन

(iv) मिथ्याकरण

उचित विकल्प चुनें :

- (1) (a)-(ii), (b)-(iii), (c)-(i), (d)-(iv)
- (2) (a)-(iii), (b)-(i), (c)-(iv), (d)-(ii)
- (3) (a)-(iv), (b)-(iii), (c)-(ii), (d)-(i)
- (4) (a)-(iv), (b)-(iii), (c)-(i), (d)-(ii)

Options:

61547545653.1

61547545654. 2

61547545655.3

61547545656. 4

 $Question\ Number: 40\ Question\ Id: 61547511711\ Question\ Type: MCQ\ Option\ Shuffling: No\ Display\ Question\ Number: Yes\ Single\ Line\ Question\ Option: No\ Option\ Orientation: Vertical$

Match the following types of communication with their distinguishing examples

(Types of Communication)

Distinguishing Example)

(a) Formal Communication

(i) Government agencies

(b) Informal Communication

(ii) Circular

(c) Outward Communication

(iii) Memos

(d) Inward Communication

(iv) Group chain

Choose the correct option from those given below:

Options:

61547545657. 1

61547545658. 2

61547545659.3

61547545660.4

Question Number: 40 Question Id: 61547511711 Question Type: MCQ Option Shuffling: No Display Question Number: Yes

Single Line Question Option: No Option Orientation: Vertical

निम्नलिखित प्रकार के संचार को उनके विशेष उदाहरण के अनुसार सुमेलित कीजिए :

(संप्रेषण के प्रकार)

(विशिष्ट उदाहरण)

(a) औपचारिक संचार

(i) सरकारी एजेंसियाँ

(b) अनौपचारिक संचार

(ii) परिपत्र

(c) बाह्य संचार

(iii) ज्ञापन

(d) आंतरिक संचार

(iv) समूहश्रृंखला

निम्नलिखित में से सही विकल्प का चयन करें :

- (1) (a)-(iii), (b)-(iv), (c)-(i), (d)-(ii)
- (2) (a)-(ii), (b)-(iii), (c)-(iv), (d)-(i)
- (3) (a)-(i), (b)-(ii), (c)-(iii), (d)-(iv)
- (4) (a)-(iv), (b)-(i), (c)-(ii), (d)-(iii)

Options:

61547545657.1

61547545658, 2

61547545659. 3

61547545660. 4

 $Question\ Number: 41\ Question\ Id: 61547511712\ Question\ Type: MCQ\ Option\ Shuffling: No\ Display\ Question\ Number: Yes\ Single\ Line\ Question\ Option: No\ Option\ Orientation: Vertical$

Correct Marks: 2 Wrong Marks: 0

Select the option that contains only optical storage media

- (1) USB memory stick, Blu Ray disk, CD ROM, DVD
- (2) DVD, CD ROM, USB memory stick, CD RW
- (3) Hard disk, USB memory stick, CD ROM, DVD
- (4) DVD, CD R, Blu Ray Disk, CD RW

Options:

61547545661.1

61547545663. 3 61547545664. 4

Question Number: 41 Question Id: 61547511712 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Correct Marks: 2 Wrong Marks: 0

निम्नलिखित में से उस विकल्प को चुनें जिसमें सिर्फ ऑप्टिकल स्टोरेज मीडिया शामिल है?

- (1) यू एस बी मेमरी स्टिक, ब्लू-रे डिस्क, सी डी-रॉम, डी वी डी
- (2) डी वी डी, सी डी-रॉम, यू एस बी मेमरी स्टिक, सी डी आर डब्ल्यु
- (3) हार्ड डिस्क, यू एस बी मेमरी स्टिक, सी डी-रॉम, डी वी डी
- (4) डी वी डी, सी डी आर, ब्लू-रे डिस्क, सी डी आर डब्ल्यू

Options:

61547545661. 1

61547545662. 2

61547545663.3

61547545664. 4

Question Number: 42 Question Id: 61547511713 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Correct Marks: 2 Wrong Marks: 0

Noise levels at a traffic site are recorded for one hour at a sampling interval of 1 second and percentile indices of noise L_1 , L_{10} , L_{50} , L_{90} are computed from the data. The indices are then arranged in increasing order in terms of their values starting from minimum to maximum. Which of the following options represents their correct order?

- (1) $L_1, L_{10}, L_{50}, L_{90}$
- (2) L₁₀, L₅₀, L₉₀, L₁
- (3) L_{50} , L_{90} , L_{10} , L_{1}
- (4) L₉₀, L₅₀, L₁₀, L₁

Options:

61547545665. 1

61547545666, 2

61547545667.3

61547545668. 4

Question Number: 42 Question Id: 61547511713 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

यातायात के एक स्थल पर प्रति सेकेन्ड के अंतराल पर एक घंटे का ध्वनि स्तर का नमूना एकत्र किया जाता है और ध्वनि के सूचकांक L_1 , L_{10} , L_{50} , L_{90} की गणना आकड़ों से की जाती है। सूचकाकों के मान को न्यूनतम से अधिकतम के बढ़ते क्रम में रखा गया है। इनमें से कौन सा विकल्प सही क्रम को दर्शाता है?

- (1) L1, L10, L50, L90
- (2) L₁₀, L₅₀, L₉₀, L₁
- (3) L₅₀, L₉₀, L₁₀, L₁
- (4) L₉₀, L₅₀, L₁₀, L₁

Options:

61547545665.1

61547545666, 2

61547545667.3

61547545668. 4

Question Number: 43 Question Id: 61547511714 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Correct Marks: 2 Wrong Marks: 0

Given below are two statements – one labelled as Assertion (A) and the other labelled as Reason (R).

Assertion (A): In the afternoon of a hot sunny day during the summer season, the tropospheric ozone levels in a city like Delhi are expected to be lower as compared to morning and evening.

Reasons (R): In the afternoon period, atmosphere is unstable and its dilution potential is higher as compared to mornings and evenings.

In the light of the above two statements, choose the correct option:

- (1) Both (A) and (R) are true and (R) is the correct explanation of (A)
- (2) Both (A) and (R) are true but (R) is not the correct explanation of (A)
- (3) (A) is true but (R) is false
- (4) (A) is false but (R) is true

Options:

61547545669.1

61547545670.2

61547545671.3

61547545672. 4

Question Number: 43 Question Id: 61547511714 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

नीचे दो कथन दिए गए हैं, पहला कथन अभिकथन (A) और दूसरा तर्क (R) है :

अभिकथन (A): गर्मी के मौसम में चिलचिलाती धूप वाली दोपहर के बाद के समय में दिल्ली जैसे शहर में क्षोभ मंडलीय ओज़ोन स्तर सुबह और शाम की तुलना में कम होने की संभावना होती है।

तर्क (R): दोपहर बाद की अवधि में वायु मण्डल अस्थिर रहता है तथा सुबह और शाम की तुलना में इसकी विलयन क्षमता अधिक होती है।

उपर्युक्त दो कथनों को ध्यन में सही विकल्प का चयन करें :

- (1) (A) और (R) दोनों सही हैं और (R) (A) की सही व्याख्या है।
- (2) (A) और (R) दोनों सही हैं किंतु (R) (A) की सही व्याख्या नहीं है।
- (3) (A) सही है किंतु (R) गलत है।
- (4) (A) गलत है किंतु (R) सही है।

Options:

61547545669.1

61547545670.2

61547545671.3

61547545672.4

Question Number: 44 Question Id: 61547511715 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Given below are two statements – one labelled as Assertion (A) and the other labelled as Reason (R).

Assertion (A): Information Technology is fast becoming a very important field of activity in India.

Reasons (R): Software is one of the major exports of India and further India has a very strong base in hardware.

In the light of the above two statements, choose the correct option:

- (1) Both (A) and (R) are true and (R) is the correct explanation of (A)
- (2) Both (A) and (R) are true but (R) is not the correct explanation of (A)
- (3) (A) is true, but (R) is false
- (4) (A) is false, but (R) is true

Options:

61547545673.1

61547545674. 2

61547545675.3

61547545676. 4

 $Question\ Number: 44\ Question\ Id: 61547511715\ Question\ Type: MCQ\ Option\ Shuffling: No\ Display\ Question\ Number: Yes\ Single\ Line\ Question\ Option: No\ Option\ Orientation: Vertical$

नीचे दो कथन दिए गए हैं एक को अभिकथन (A) और दूसरे को तर्क (R) कहा जाता है :

सूचना प्रौद्यौगिकी भारत में तेजी से एक अत्यंत महत्वपूर्ण क्षेत्र बनती जा रही है। अभिकथन (A):

तर्क (R): सॉफ्टवेयर भारत के प्रमुख निर्यातों में से एक है और इसके अलावा भारत का हार्डवेयर में काफी मजबूत आधार है।

उपर्युक्त दोनों कथनों के आलोक में सही विकल्प चुनें :

- (A) और (R) दोनों सही हैं और (R) (A) की सही व्याख्या है। (1)
- (A) और (R) दोनों सही हैं और (R) (A) की सही व्याख्या नहीं है। (2)
- (A) सही है किंतु (R) सही नहीं है। (3)
- (A) सही नहीं है किंतू (R) सही है। (4)

Options:

61547545673. 1

61547545674. 2

61547545675.3

61547545676. 4

Question Number: 45 Question Id: 61547511716 Question Type: MCQ Option Shuffling: No Display Question Number: Yes

Single Line Question Option: No Option Orientation: Vertical

Given below are two statements – one is labelled as Assertion (A) and the other labelled as Reason (R).

Assertion (A): The Governor has the power to ask for any information from the Chief

Minister regarding the administration of the State.

Reasons (R): The Governor is the real Head of the State administration.

In the context of the above two statements, choose the correct option:

- (1) Both (A) and (R) are true and (R) is the correct explanation of (A)
- (2) Both (A) and (R) are true but (R) is not the correct explanation of (A)
- (3) (A) is true, but (R) is false
- (4) (A) is false, but (R) is true

Options:

61547545677.1

61547545678. 2

61547545679.3

61547545680.4

Question Number : 45 Question Id : 61547511716 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Single Line Question Option . No Option Orientation . Vertical

नीचे दो कथन दिए गए हैं पहला अभिकथन (A) और दूसरा तर्क (R) है :

राज्यपाल को राज्य के प्रशासन के बारे में मुख्यमंत्री से किसी भी प्रकार की सूचना माँगने की शक्ति है। अभिकथन (A):

तर्क (R): राज्यपाल राज्य प्रशासन का वास्तविक प्रमुख है।

उपर्युक्त दो कथनों के संबंध में, सही विकल्प का चयन कीजिए :

- (A) और (R) दोनों सही हैं और (A) की सही व्याख्या (R) है। (1)
- (A) और (R) दोनों सही हैं किंत्. (R) (A) की सही व्याख्या नहीं है। (2)
- (A) सही है, किंतु (R) गलत है। (3)
- (A) गलत है, किंतु (R) सही है। (4)

Options:

61547545677.1

61547545678. 2

61547545679.3

61547545680. 4

Sub-Section Number:

Sub-Section Id: 615475505 **Question Shuffling Allowed:** Yes

Question Id: 61547511717 Question Type: COMPREHENSION Sub Question Shuffling Allowed: Yes Group Comprehension

Ouestions: No

Question Numbers: (46 to 50)

Question Label : Comprehension

Read the following passage and answer questions which follow.

I do not wish to suggest that the humanistic elements in education are less important than the utilitarian elements. To know something of great literature, something of world history something of music and painting and architecture, is essential if the life of imagination is to be fully developed. And it is only through imagination that men become aware of what the world might be; without it, 'progress' would become mechanical and trivial. But science, also can stimulate the imagination.

Psychology was until fairly lately, a merely academic study, with very little application to practical affairs. This is all changed now. We have, for instance, industrial psychology, clinical psychology, educational psychology; all of which are of the great practical importance. We may hope and expect that the influence of psychology upon our institutions will rapidly increase in the near future. In education, at any rate, its effect has already been great and beneficent.

Single Li	Number: 46 Question Id: 61547511718 Question Type: Note that the Question Option: Note Option Orientation: Vertical Marks: 2 Wrong Marks: 0	MCQ Opti	on Shuffling : N	No Display Question Number : Yes
As pe	er the passage, people become aware of	"What	the world	l might be?" only through
(1)	Literatue	(2)	History	
(3)	Imagination	(4)	Music	
Options : 615475	: 545681. 1			
615479	545682. 2			
615479	545683. 3			
615475	545684. 4			
Single Li	Number: 47 Question Id: 61547511719 Question Type: Note that the Question Option: Note Option Orientation: Vertical Marks: 2 Wrong Marks: 0	MCQ Opti	on Shuffling : N	No Display Question Number : Yes
As p	oer the passage, without imagin	ation	the 'pro	gress' would become
(1)	Humanistic		(2)	Mechanical
(3)	Creative		(4)	Realistic
Options : 615475	: 545685. 1			
	545686. 2			
615475	545687. 3			
615475	545688. 4			
Single Li	Number: 48 Question Id: 61547511720 Question Type: None Question Option: No Option Orientation: Vertical Marks: 2 Wrong Marks: 0	MCQ Opti	on Shuffling : N	No Display Question Number : Yes
Acco	rding to the passage psychology unt	il rece	ntly was	of very little
(1)	Academic orientation.	(2) App	lication in academics
(3)	Application to practical affairs	((4) App	lication to imagination
Options : 615475	: 545689. 1			
615475	545690. 2			
615475	545691. 3			
615475	545692. 4			
Single Li	Number: 49 Question Id: 61547511721 Question Type: Mine Question Option: No Option Orientation: Vertical Marks: 2 Wrong Marks: 0	MCQ Opti	on Shuffling : N	No Display Question Number : Yes

In the passage, the author is optimistic about

- (1) The utilitarian elements in education
- (2) Decrease in the role of imagination in education
- (3) The role of psychology in laboratories
- (4) Increase in the influence of psychology upon institutions.

Options:

61547545693.1

61547545694. 2

61547545695.3

61547545696. 4

 $\label{eq:Question Number: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical$

Correct Marks: 2 Wrong Marks: 0

As per the passage, if the life of imagination is to be fully developed, some exposure to the following is required:

(a) Literature

(b) World history

(c) Music

(d) Politics.

Choose the correct options from these given below:

(1) Only (a) and (b)

(2) Only (a) and (c)

(3) Only (a), (b) and (d)

(4) Only (a), (b) and (c)

Options:

61547545697.1

61547545698. 2

61547545699.3

61547545700.4

Question Id: 61547511717 Question Type: COMPREHENSION Sub Question Shuffling Allowed: Yes Group Comprehension

Questions: No

Question Numbers: (46 to 50)

Question Label: Comprehension

निम्नलिखित परिच्छेद को पढ़ें और संबंधित प्रश्नों के उत्तर दें :

मैं यह नहीं कहना चाहता कि शिक्षण में मानवतावादी तत्व उपयोगितावादी तत्वों से कम महत्वपूर्ण हैं। कल्पनाशक्ति के संपूर्ण विकास के लिए थोड़ा-बहुत महान् साहित्य, थोड़ा-बहुत वैश्विक इतिहास और थोड़ा-बहुत संगीत, चित्रकला और वास्तुकला का ज्ञान अनिवार्य है। और सिर्फ कल्पना-शक्ति के माध्यम से ही मनुष्यों को संसार की विविध संभावनाओं के बारे में पता चला; इसके बगैर 'प्रगति' यांत्रिक और खोखली बन जाएगी। लेकिन विज्ञान भी कल्पना को प्रेरित कर सकता है।

मनोविज्ञान, बहुत हाल के वर्षों तक, महज अकादिमक अध्ययन का एक विषय हुआ करता था और व्यावहारिक कार्यों में इसकी उपयोगिता पर्याप्त कम थी। अब यह सब बदल चुका है। उदाहरणस्वरूप अब हमारे पास औद्यौगिक मनोविज्ञान है, नैदानिक मनोवज्ञान है, शैक्षणिक मनोविज्ञान है; और इन सब का पर्याप्त व्यावहारिक महत्व है। हम यह आशा और अपेक्षा कर सकते हैं कि निकट भविष्य में हमारे संस्थानों में मनोविज्ञान का प्रभाव तेजी से बढ़ेगा। शिक्षा के क्षेत्र में तो इसका पहले ही से हितकारी और अच्छा प्रभाव रहा है।

Single Li	Number: 46 Question Id: 61547511718 Question Question Option: No Option Orientation: Ve	on Type : MCQ Opticertical	on Shuffling: No Dis	splay Question Number : Yes
	Marks: 2 Wrong Marks: 0	ਨੂੰ' ਤੇ ਕੂਰੇ ਤੋਂ ਨਿ	f farri mem	ਸੇ ਤਾਜ਼ਸੀ ਜ਼ਿਕ ਸਕਤੀ ਭੈ੨
पारच्छ	द के अनुसार लोगों को 'संसार की संभावन	। आ कार मास [्]	क किसक माध्यम	स जानकारा भिल सकता है!
(1)	साहित्य	(2)	इतिहास	
(3)	कल्पना-शक्ति	(4)	संगीत	
Options :				
	545681. 1			
	545682. 2			
	545683. 3			
615475	545684. 4			
Single Li	Number: 47 Question Id: 61547511719 Questione Question Option: No Option Orientation: Ve Marks: 2 Wrong Marks: 0	on Type : MCQ Opticertical	on Shuffling : No Dis	splay Question Number : Yes
परिच	छेद के अनुसार कल्पना-शक्ति के	अभाव में 'प्रग	ाति' क्या हो उ	नाएगी ?
(1)	मानवतावादी		(2)	यांत्रिक
(3)	सर्जनात्मक		(4)	यथार्थपरक
Options :				
	545685. 1			
	545686. 2			
	545687. 3			
615475	545688. 4			
Single Li	Number: 48 Question Id: 61547511720 Question Question Option: No Option Orientation: Vo Marks: 2 Wrong Marks: 0	on Type : MCQ Opticertical	on Shuffling: No Dis	splay Question Number : Yes
	द के अनुसार बहुत हाल के वर्षों तक मन	गोविज्ञान का/की व	बहुत ही कम	-
(1)	अकादमिक उन्मुखीकरण था।	(2	2) अकादमिक	अनुप्रयोग था।
(3)	व्यावहारिक उपयोगिता थी।	(4	4) कल्पना शर्वि	क्ते के लिए उपयोगिता थी।
Options :	:			
615475	545689. 1			
615475	545690. 2			
615475	545691. 3			
615475	545692. 4			
	Number: 49 Question Id: 61547511721 Question Question Option: No Option Orientation: Ve		on Shuffling: No Dis	splay Question Number : Yes

परिच्छेद में लेखक किस बात को लेकर आशान्वित हैं?

- (1) शिक्षण में उपयोगितावादी तत्व
- (2) शिक्षण में कल्पनाशक्ति की भूमिका में हास
- (3) प्रयोगशालाओं में मनोविज्ञान की भूमिका
- (4) संस्थानों में मनोविज्ञान के प्रभाव में अभिवृद्धि

Options:

61547545693. 1

61547545694. 2

61547545695.3

61547545696. 4

Question Number: 50 Question Id: 61547511722 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Correct Marks: 2 Wrong Marks: 0

परिच्छेद के अनुसार यदि कल्पना शक्ति का संपूर्ण विकास करना है तो निम्नलिखित में से किसका थोड़ा-बहुत ज्ञान होना चाहिए?

(a) साहित्य

(b) विश्व इतिहास

(c) संगीत

(d) राजनीति

निम्नलिखित में से सही विकल्प चुनें :

(1) केवल (a) और (b) सही हैं

(2) केवल (a) और (c) सही हैं

(3) केवल (a), (b) और (d) सही हैं

(4) केवल (a), (b) और (c) सही हैं

Options:

61547545697.1

61547545698. 2

61547545699.3

61547545700. 4

PART II Environmental Sciences

Section Id: 615475156

Section Number :2Section type :OnlineMandatory or Optional:MandatoryNumber of Ouestions:92

Number of Questions:92Number of Questions to be attempted:92Section Marks:200Display Number Panel:YesGroup All Questions:No

Sub-Section Number:

1

Sub-Section Id: 615475506

Question Number: 51 Question Id: 61547511723 Question Type: MCQ Option Shuffling: No Display Question Number: Yes

Yes

Single Line Question Option: No Option Orientation: Vertical

Correct Marks: 2 Wrong Marks: 0

Beaufort Scale is used to classify which of the following meteorological parameters?

(1) Pressure

(2) Precipitation

(3) Wind Direction

(4) Wind Velocity

Options:

61547545701.1

61547545702. 2

61547545703.3

61547545704. 4

Question Number: 51 Question Id: 61547511723 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Correct Marks : 2 Wrong Marks : 0

Beaufort Scale is used to classify which of the following meteorological parameters?

(1) Pressure

(2) Precipitation

(3) Wind Direction

(4) Wind Velocity

Options:

61547545701.1

61547545702. 2

61547545703.3

61547545704. 4

Question Number: 52 Question Id: 61547511724 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Correct Marks: 2 Wrong Marks: 0

Two streams A and B are flowing with flow rates of 20 m³/s and 5 m³/s respectively. The concentration of a pollutant X in the two streams are 15 mg/l (stream A) and 50 mg/l (stream B). The two streams join each other. Assume that complete mixing of the streams occurs after joining and the pollutant is a conservative substance. The downstream concentration of the pollutant after the joining of two streams would be:

(1) 30 mg/l

(2) 27 mg/l

(3) 25 mg/l

(4) 22 mg/l

Options:

61547545705.1

61547545706. 2

Question Number: 52 Question Id: 61547511724 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Correct Marks: 2 Wrong Marks: 0

Two streams A and B are flowing with flow rates of 20 m³/s and 5 m³/s respectively. The concentration of a pollutant X in the two streams are 15 mg/l (stream A) and 50 mg/l (stream B). The two streams join each other. Assume that complete mixing of the streams occurs after joining and the pollutant is a conservative substance. The downstream concentration of the pollutant after the joining of two streams would be:

(1) 30 mg/l

(2) 27 mg/l

(3) 25 mg/l

(4) 22 mg/l

Options:

61547545705.1

61547545706. 2

61547545707.3

61547545708. 4

Question Number : 53 Question Id : 61547511725 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks: 2 Wrong Marks: 0

Which of the following statements is <u>incorrect</u>?

- (1) Thermosphere and stratosphere are characterized by an increase in temperature with altitude.
- (2) Troposphere and mesosphere are characterized by a decrease in temperature with altitude in general.
- (3) Lowest temperature is found at tropopause.
- (4) Lapse rates determine the vertical stability of the atmosphere.

Options:

61547545709.1

61547545710.2

61547545711.3

61547545712. 4

Question Number: 53 Question Id: 61547511725 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Single Line Question Option: No Option Orientation: Vertica

Which of the following statements is incorrect?

- Thermosphere and stratosphere are characterized by an increase in temperature with altitude.
- (2) Troposphere and mesosphere are characterized by a decrease in temperature with altitude in general.
- (3) Lowest temperature is found at tropopause.
- (4) Lapse rates determine the vertical stability of the atmosphere.

Options:

61547545709.1

61547545710.2

61547545711. 3

61547545712. 4

 $Question\ Number: 54\ Question\ Id: 61547511726\ Question\ Type: MCQ\ Option\ Shuffling: No\ Display\ Question\ Number: Yes\ Single\ Line\ Question\ Option: No\ Option\ Orientation: Vertical$

Correct Marks: 2 Wrong Marks: 0

Which one among the following is true in the context of enthalpy (H), internal energy (U), pressure (P) and volume (V) of a thermodynamic system?

(1) H = U - PV

 $(2) \quad H = U + PV$

(3) H = P + UV

 $(4) \quad H = P - UV$

Options:

61547545713.1

61547545714. 2

61547545715.3

61547545716. 4

Question Number : 54 Question Id : 61547511726 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks: 2 Wrong Marks: 0

Which one among the following is true in the context of enthalpy (H), internal energy (U), pressure (P) and volume (V) of a thermodynamic system?

 $(1) \qquad \mathbf{H} = \mathbf{U} - \mathbf{PV}$

 $(2) \quad H = U + PV$

(3) H = P + UV

 $(4) \quad H = P - UV$

Options:

61547545713.1

615475	45715. 3			
615475	45716. 4			
Single Lin	Number: 55 Question Id: 61547511727 Question Option: No Option Orientation Iarks: 2 Wrong Marks: 0	uestion Type : I 1 : Vertical	MCQ Option	Shuffling: No Display Question Number: Yes
Above	the earth's surface, 90% of the	total atmo	spheric m	ass is confined within first:
(1)	5 km	(2	2) 10 km	
(3)	20 km	(4	4) 30 km	
Options: 615475	45717. 1			
	45718. 2			
	45719. 3			
	45720. 4			
Single Lin Correct M	Number: 55 Question Id: 61547511727 Question Option: No Option Orientation Marks: 2 Wrong Marks: 0	ı : Vertical		Shuffling: No Display Question Number: Yes ass is confined within first:
110011	one caron a partace, control one	total atilio	opiiciic iii	
(1)	5 km	(2	2) 10 km	
(3)	20 km	(4	4) 30 km	
Options: 615475	45717. 1			
615475	45718. 2			
615475	45719. 3			
615475	45720. 4			
Single Lin	Number: 56 Question Id: 61547511728 Que Question Option: No Option Orientation Iarks: 2 Wrong Marks: 0	uestion Type : I n : Vertical	MCQ Option	Shuffling: No Display Question Number: Yes
The	ethical view, which argues th	hat any re	esource of	nature is meant for human
use/co	onsumption is termed as:			
(1)	Stewardship	(2)	Utilitaria	an
(3)	Ecocentric	(4)	Biocentri	ic
Options: 615475	45721. 1			
615475	45722. 2			
615475	45723. 3			
615475	45724. 4			

Single Li	Number : 56 Quest ne Question Option Marks : 2 Wrong M	: No Option Orienta	Question : Ver	n Type : MC tical	CQ Option	n Shuffling: No Display Question Number: Yes
The	ethical view	which argues	that	any reso	nurce of	of nature is meant for human
	consumption is	-	· ·	ary rose	ourse of	interes is mount for manual
(1)	Stewardship			(2)	Utilitari	rian
(3)	Ecocentric			(4)	Biocentr	ric
Options	:					
615475	545721. 1					
615475	545722. 2					
615475	545723. 3					
615475	545724. 4					
Single Li	Number: 57 Quest ne Question Option Marks: 2 Wrong M	: No Option Orienta	Question tion : Ver	n Type : MC tical	CQ Option	n Shuffling: No Display Question Number: Yes
Whic	h of the follow	ing chemical or	ganic s	pecies is	/are ins	soluble in acid or alkali?
(1)	Fulvic acid			(2)	Humi	ic acid
(3)	Humin			(4)	Both	humic acid and humin
Options : 615475	: 545725. 1					
615479	545726. 2					
615479	545727. 3					
615479	545728. 4					
Single Li	Number: 57 Quest ne Question Option Marks: 2 Wrong M	: No Option Orienta	Question tion : Ver	n Type : MC tical	CQ Option	n Shuffling: No Display Question Number: Yes
Whic	h of the follow	ing chemical or	ganic s	pecies is	/are ins	soluble in acid or alkali?
(1)	Fulvic acid			(2)	Humi	ic acid
(3)	Humin			(4)	Both	humic acid and humin
615475	545725. 1 545726. 2					
0154/5	545727. 3					

Question Number : 58 Question Id : 61547511730 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks: 2 Wrong Marks: 0

Which of the following statements is NOT correct with regard to chemical analysis by flame photometer?

- The intensity of the colour tells us the amount of the element present.
- (2) The wavelength of the colour identifies the element present.
- (3) The ions absorb the energy from the flame and get excited.
- (4) When ion returns from excited state to ground state, it absorbs the radiation of a characteristic frequency.

Options:

61547545729.1

61547545730, 2

61547545731.3

61547545732. 4

Question Number: 58 Question Id: 61547511730 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Correct Marks: 2 Wrong Marks: 0

Which of the following statements is NOT correct with regard to chemical analysis by flame photometer?

- The intensity of the colour tells us the amount of the element present.
- (2) The wavelength of the colour identifies the element present.
- (3) The ions absorb the energy from the flame and get excited.
- (4) When ion returns from excited state to ground state, it absorbs the radiation of a characteristic frequency.

Options:

61547545729.1

61547545730. 2

61547545731.3

61547545732. 4

Question Number: 59 Question Id: 61547511731 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Which of the following Rf values is not possible?

(1) 0.0

(2) 0.5

(3) 1.0

(4) 2.0

Options:

61547545733.1

61547545734. 2

61547545735.3

61547545736.4

Question Number: 59 Question Id: 61547511731 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Correct Marks: 2 Wrong Marks: 0

Which of the following Rf values is not possible?

(1) 0.0

(2) 0.5

(3) 1.0

(4) 2.0

Options:

61547545733.1

61547545734. 2

61547545735.3

61547545736.4

Question Number : 60 Question Id : 61547511732 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks: 2 Wrong Marks: 0

Polar Stratospheric Clouds facilitate which of the following reactions in the development of ozone hole?

(1) $\operatorname{Cl}_2 + h\nu \to 2\operatorname{Cl}$

(2) ClNO₃ + HCl → Cl₂ + HNO₃

(3) $ClO + NO_2 + M \rightarrow ClNO_3 + M$

(4) $Cl + O_3 \rightarrow ClO + O_9$

Options:

61547545737. 1

61547545738. 2

61547545739. 3

61547545740. 4

Question Number: 60 Question Id: 61547511732 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Polar Stratospheric Clouds facilitate which of the following reactions in the development of ozone hole?

(1) $Cl_2 + h\nu \rightarrow 2Cl$

(2) $CINO_3 + HCl \rightarrow Cl_2 + HNO_3$

(3) $ClO + NO_2 + M \rightarrow ClNO_3 + M$

(4) $Cl + O_3 \rightarrow ClO + O_2$

Options:

61547545737.1

61547545738. 2

61547545739.3

61547545740.4

Question Number: 61 Question Id: 61547511733 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Correct Marks: 2 Wrong Marks: 0

The night-time tropospheric chemistry is dominated by which of the following chemical species?

Hydroxyl radicals

(2) Nitrate radicals

(3) Nitrate ions

(4) Ozone molecules

Options:

61547545741.1

61547545742. 2

61547545743.3

61547545744. 4

Question Number : 61 Question Id : 61547511733 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks: 2 Wrong Marks: 0

The night-time tropospheric chemistry is dominated by which of the following chemical species?

(1) Hydroxyl radicals

(2) Nitrate radicals

(3) Nitrate ions

(4) Ozone molecules

Options:

61547545741.1

61547545742. 2

61547545743.3

Question Number : 62 Question Id : 61547511734 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks: 2 Wrong Marks: 0

Identify the correct sequence of the components of Producer Gas from biogasification of coal in decreasing order of their concentrations:

(1) $CH_4 > H_2 > CO > N_2$

(2) $H_2 > CO > CH_4 > N_2$

(3) $N_2 > CO > H_2 > CH_4$

(4) $N_2 > CH_4 > CO > H_2$

Options:

61547545745.1

61547545746. 2

61547545747. 3

61547545748. 4

Question Number : 62 Question Id : 61547511734 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks: 2 Wrong Marks: 0

Identify the correct sequence of the components of Producer Gas from biogasification of coal in decreasing order of their concentrations:

(1) $CH_4 > H_2 > CO > N_2$

(2) $H_2 > CO > CH_4 > N_2$

(3) $N_2 > CO > H_2 > CH_4$

(4) $N_2 > CH_4 > CO > H_2$

Options:

61547545745.1

61547545746. 2

61547545747.3

61547545748.4

Question Number: 63 Question Id: 61547511735 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Correct Marks: 2 Wrong Marks: 0

The landscape used by wild animals for their movement between forest patches, is called:

(1) Wildlife Corridor

(2) Forest Edge

(3) Public Corridor

(4) Resource Corridor

Options:

61547545749. 1

61547545750. 2

61547545751.3

Question Number: 63 Question Id: 61547511735 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Correct Marks: 2 Wrong Marks: 0

The landscape used by wild animals for their movement between forest patches, is called:

(1) Wildlife Corridor (2) Forest Edge

Options:

(3)

61547545749. 1

61547545750.2

61547545751.3

61547545752. 4

Question Number: 64 Question Id: 61547511736 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Correct Marks: 2 Wrong Marks: 0

Public Corridor

How many years will it take for the population of a country to double, if it grows at the rate of 4 percent per year?

(1) ~ 17.3 years

(2) ~13.8 years

(4) Resource Corridor

(3) ~ 15 years

(4) ~ 25 years

Options:

61547545753. 1

61547545754. 2

61547545755.3

61547545756. 4

Question Number : 64 Question Id : 61547511736 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks: 2 Wrong Marks: 0

How many years will it take for the population of a country to double, if it grows at the rate of 4 percent per year?

(1) ~ 17.3 years

(2) ~13.8 years

(3) ~ 15 years

(4) ~ 25 years

Options:

61547545753.1

61547545754. 2

61547545755.3

Single L	n Number: 65 Question Id: 61547511737 Que ine Question Option: No Option Orientation: Marks: 2 Wrong Marks: 0		CQ Option Shuffling: No Display Question Number: Yes
The	bioremediation technology which i	nvolves the	addition of microbial culture is known as
(1)	Enhanced Bioremediation	(2)	Bioaugmentation
(3)	Bioventing	(4)	Intrinsic Bioremediation
Options 61547	: 545757. 1		
	545758. 2		
	545759. 3		
61547	545760. 4		
Single L	n Number: 65 Question Id: 61547511737 Que ine Question Option: No Option Orientation: Marks: 2 Wrong Marks: 0	estion Type : Mo Vertical	CQ Option Shuffling: No Display Question Number: Yes
The	bioremediation technology which i	nvolves the	addition of microbial culture is known as
(1)	Enhanced Bioremediation	(2)	Bioaugmentation
(3)	Bioventing	(4)	Intrinsic Bioremediation
Options	: 545757. 1		
	545758. 2		
	545759. 3		
	545760. 4		
Single L	n Number: 66 Question Id: 61547511738 Que ine Question Option: No Option Orientation: Marks: 2 Wrong Marks: 0	estion Type : Mo Vertical	CQ Option Shuffling: No Display Question Number: Yes
	ability of an ecosystem to reco	ver when	the system has been disturbed by any
743		2200	TT
(1)	Resistance	(2)	Homeostasis
(3)	Climax	(4)	Resilience
Options 61547	: 545761.1		

61547545762. 2 61547545763. 3 61547545764. 4 Question Number: 66 Question Id: 61547511738 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Correct Marks: 2 Wrong Marks: 0

The ability of an ecosystem to recover when the system has been disturbed by any perturbation is known as

(1) Resistance

Homeostasis (2)

(3)Climax Resilience

Options:

61547545761.1

61547545762, 2

61547545763.3

61547545764. 4

Question Number: 67 Question Id: 61547511739 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Correct Marks: 2 Wrong Marks: 0

Phytoremediation is an important tool for

- improving the health of diseased plants (1)
- (2)removing dissolved oxygen from the aquatic ecosystem
- eradicating the invasive species (3)
- removing toxic chemicals from the polluted ecosystem (4)

Options:

61547545765.1

61547545766, 2

61547545767.3

61547545768. 4

Question Number: 67 Question Id: 61547511739 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Correct Marks: 2 Wrong Marks: 0

Phytoremediation is an important tool for

- improving the health of diseased plants (1)
- removing dissolved oxygen from the aquatic ecosystem (2)
- eradicating the invasive species (3)
- removing toxic chemicals from the polluted ecosystem (4)

61547	545/65.1			
61547	545766. 2			
61547	545767. 3			
615475	545768. 4			
Single Li	n Number : 68 Question Id : 61547 ine Question Option : No Option O Marks : 2 Wrong Marks : 0	7511740 Question Type : MC Orientation : Vertical	CQ Option Shuffling: No Display Question Nun	ıber : Yes
In co	mparison to its adjoining	g ecosytems, the biod	iversity in the ecotone is	
(1)	lower	(2)	higher	
(3)	same	(4)	extremely low	
Options 615475	: 545769. 1			
	545770. 2			
	545771. 3			
61547	545772. 4			
Single Li	n Number: 68 Question Id: 61547 ine Question Option: No Option (Marks: 2 Wrong Marks: 0	7511740 Question Type : MC Orientation : Vertical	CQ Option Shuffling: No Display Question Nun	ıber : Yes
In co	mparison to its adjoining	g ecosytems, the biod	iversity in the ecotone is	
(1)	lower	(2)	higher	
(3)	same	(4)	extremely low	
Options	: 545769. 1			
	545770. 2			
	545771. 3			
	545772. 4			
	· · - · ·			
Question Single Li	Number : 69 Question Id : 61547 ine Question Option : No Option (511741 Question Type : MC Orientation : Vertical	CQ Option Shuffling: No Display Question Nun	ıber : Yes

Options:

Influx	x of high nutrient load of nitrates	and phospl	nates into an aquatic ecosystem contributes
towar	rd s		
(1)	oligotrophication	(2)	poor primary production
(3)	extreme oligotrophication	(4)	eutrophication
Options : 6154754	15772 1		
6154754			
6154754			
6154754			
Single Line	Tumber: 69 Question Id: 61547511741 Quest e Question Option: No Option Orientation: V arks: 2 Wrong Marks: 0	tion Type : MC Vertical	Q Option Shuffling: No Display Question Number: Yes
Influ	x of high nutrient load of nitrates	and phospl	nates into an aquatic ecosystem contributes
towar	•ds		
(1)	oligotrophication	(2)	poor primary production
(3)	extreme oligotrophication	(4)	eutrophication
Options: 6154754			
6154754			
6154754 6154754			
Single Line	Tumber: 70 Question Id: 61547511742 Quest e Question Option: No Option Orientation: V arks: 2 Wrong Marks: 0	tion Type : MC Vertical	Q Option Shuffling: No Display Question Number: Yes
Which	one among the following is <u>NOT</u>	a form of p	precipitation?
(1)	Snow	(2)	Sleet
(3)	Hail	(4)	Fog
Options: 6154754			

Question Number: 70 Question Id: 61547511742 Question Type: MCQ Option Shuffling: No Display Question Number: Yes

Single Line Question Option: No Option Orientation: Vertical

Correct Marks: 2 Wrong Marks: 0

Which one among the following is **NOT** a form of precipitation?

(1) Snow

(2) Sleet

(3) Hail

(4) Fog

Options:

61547545777. 1

61547545778. 2

61547545779. 3

61547545780.4

Question Number: 71 Question Id: 61547511743 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Correct Marks: 2 Wrong Marks: 0

Strike -slip faults are examples of plate movement which is

- (1) perpendicular to the strike of the fault plane
- (2) parallel to the strike of the fault plane
- (3) at 45° to the strike of the fault plane
- (4) not in the faultzone

Options:

61547545781.1

61547545782. 2

61547545783.3

61547545784. 4

Question Number: 71 Question Id: 61547511743 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Correct Marks: 2 Wrong Marks: 0

Strike -slip faults are examples of plate movement which is

- (1) perpendicular to the strike of the fault plane
- (2) parallel to the strike of the fault plane
- (3) at 45° to the strike of the fault plane
- (4) not in the faultzone

Options:

61547545781.1

61547545782. 2

61547545783.3

61547545784. 4

Question Number: 72 Question Id: 61547511744 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Correct Marks: 2 Wrong Marks: 0

Artesian Well is

- (1) Artificial well
- (2) Natural well in fault planes
- (3) Water underneath the surface having sufficient hydraulic pressure
- (4) Water underneath the surface having very low hydraulic pressure

Options:

61547545785.1

61547545786. 2

61547545787.3

61547545788. 4

Question Number: 72 Question Id: 61547511744 Question Type: MCQ Option Shuffling: No Display Question Number: Yes

Single Line Question Option: No Option Orientation: Vertical

Correct Marks: 2 Wrong Marks: 0

Artesian Well is

- (1) Artificial well
- (2) Natural well in fault planes
- (3) Water underneath the surface having sufficient hydraulic pressure
- (4) Water underneath the surface having very low hydraulic pressure

Options:

61547545785.1

61547545786, 2

61547545787. 3

Single Line	Number: 73 Question Id: 61547511745 (e Question Option: No Option Orientation arks: 2 Wrong Marks: 0	Question Type : MC(on : Vertical	Q Option Shuffling: No Display Question Number: Yes
La N	Jina is a Spanish word meanir	ng	
	o. o.p	-0	
(1)	The little boy	(2)	The little girl
(3)	The son of the ocean	(4)	The daughter of the ocean
Options :			
6154754			
6154754			
6154754			
6154754	15792. 4		
Single Line	Number: 73 Question Id: 61547511745 (e Question Option: No Option Orientation arks: 2 Wrong Marks: 0	Question Type : MC(on : Vertical	Q Option Shuffling: No Display Question Number: Yes
La N	Iina is a Spanish word meanir	ng	
(1)	The little boy	(2)	The little girl
(3)	The son of the ocean	(4)	The daughter of the ocean
Options :			
6154754	1 5789. 1		
6154754	1 5790. 2		
6154754	1 5791. 3		
6154754	15792. 4		
Single Line	Number: 74 Question Id: 61547511746 (e Question Option: No Option Orientation arks: 2 Wrong Marks: 0	Question Type : MC(on : Vertical	Q Option Shuffling: No Display Question Number: Yes
50 m	m of rainfall was recorded du	ring 30 min of	rain in an area of 2.5 ha. The total volume
of wa	ter that fell on that area durin	ng the rain wou	ıld be
(1)	625 m^3	(2)	1250 m^3
(3)	$18,750 \text{ m}^3$	(4)	$37,500 \text{ m}^3$
Options : 6154754	45793. 1		

61547545794. 2 61547545795. 3 61547545796. 4

Single Li	Number: 74 Question Id: 61547 ne Question Option: No Option C Marks: 2 Wrong Marks: 0	511746 Question Type : MC Orientation : Vertical	CQ Option Shuffling: No Display Question Number: Ye	:S
50 n	nm of rainfall was record	led during 30 min of	f rain in an area of 2.5 ha. The total volu	me
of w	ater that fell on that are	a during the rain wo	ould be	
(1)	625 m^3	(2)	$1250~\mathrm{m}^3$	
(3)	$18,750 \text{ m}^3$	(4)	37,500 m ³	
Options:	545793. 1			
	545794. 2			
	545795. 3			
	545796. 4			
Single Li Correct N	ne Question Option: No Option (Marks: 2 Wrong Marks: 0	Orientation : Vertical	CQ Option Shuffling: No Display Question Number: Ye	
In fa	ist breeder nuclear reacti	or power plants, the	ratio of fissile material produced to fissile	е
mate	erial consumed is			
(1)	Zero	(2)	1	
(3)	less than 1	(4)	greater than 1	
Options : 615475	545797. 1			
	545798. 2			
	545799. 3			
	545800. 4			
Single Li	Number: 75 Question Id: 61547 ne Question Option: No Option O Marks: 2 Wrong Marks: 0	511747 Question Type : MC Orientation : Vertical	CQ Option Shuffling: No Display Question Number: Ye	:S
In fa	ast breeder nuclear react	or power plants, the	ratio of fissile material produced to fissile	е
mate	erial consumed is			
(1)	Zero	(2)	1	
(3)	less than 1	(4)	greater than 1	

Options:

615475	545797. 1			
615475	545798. 2			
615475	545799. 3			
615475	545800. 4			
Single Li	Number: 76 Question Id: 61547511 ne Question Option: No Option Orie Marks: 2 Wrong Marks: 0	748 Question Type : Montation : Vertical	CQ Option Shuffling : No	Display Question Number : Yes
In ca	ase of which of the following	fossil fuels, the d	ifference between t	he Gross Calorific Value
and l	Net Calorific Value is maxir	num?		
(1)	Natural Gas	(2)	Petrol	
(3)	Diesel	(4)	Coal	
Options : 615475	545801. 1			
615475	545802. 2			
615475	545803. 3			
615475	545804. 4			
Single Li	Number: 76 Question Id: 61547511 ne Question Option: No Option Orie Marks: 2 Wrong Marks: 0	748 Question Type : Montation : Vertical	CQ Option Shuffling : No	Display Question Number : Yes
In ca	ase of which of the following	fossil fuels, the d	ifference between t	he Gross Calorific Value
and l	Net Calorific Value is maxir	num?		
(1)	Natural Gas	(2)	Petrol	
(3)	Diesel	(4)	Coal	
Options :				
615475	545801. 1			
615475	45802. 2			
615475	345803. 3			
615475	545804. 4			
Question Single Lin	Number: 77 Question Id: 61547511 ne Question Option: No Option Orie	749 Question Type : Montation : Vertical	CQ Option Shuffling: No	Display Question Number : Yes

Which one among the following is NOT a type of tidal power plant?

- (1) Single basin double-effect plant
- (2) Single basin with linked operation
- (3) Double basin with linked-basin operation
- (4) Double basin with paired-basin operation

Options:

61547545805.1

61547545806. 2

61547545807.3

61547545808. 4

Question Number: 77 Question Id: 61547511749 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Correct Marks: 2 Wrong Marks: 0

Which one among the following is NOT a type of tidal power plant?

- Single basin double-effect plant
- (2) Single basin with linked operation
- (3) Double basin with linked-basin operation
- (4) Double basin with paired-basin operation

Options:

61547545805. 1

61547545806. 2

61547545807.3

61547545808.4

Question Number: 78 Question Id: 61547511750 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Correct Marks: 2 Wrong Marks: 0

What is the total power per unit area available in a wind stream blowing at a speed of 5 m/s? (Given density of air = 1.226 J/kg.K/m³)

(1) 76.6 W/m²

(2) 15.3 W/m²

(3) 153.3 W/m²

(4) 30.6 W/m²

Options:

61547545809.1

61547545810. 2

61547545811.3

61547545812. 4

Question Number: 78 Question Id: 61547511750 Question Type: MCQ Option Shuffling: No Display Question Number: Yes

Single Line Question Option : No Option Orientation : Vertical

Correct Marks: 2 Wrong Marks: 0

What is the total power per unit area available in a wind stream blowing at a speed of 5 m/s? (Given density of air = 1.226 J/kg.K/m³)

(1) 76.6 W/m²

(2) 15.3 W/m²

(3) 153.3 W/m²

(4) 30.6 W/m²

Options:

61547545809.1

61547545810.2

61547545811.3

61547545812. 4

Question Number: 79 Question Id: 61547511751 Question Type: MCQ Option Shuffling: No Display Question Number: Yes

Single Line Question Option : No Option Orientation : Vertical

Correct Marks: 2 Wrong Marks: 0

What is the theoretical maximum fraction of power in the wind that can be extracted by a horizonal axis wind turbine?

(1) ~ 27 %

(2) ~59 %

(3) ~16 %

(4) ~75%

Options:

61547545813.1

61547545814. 2

61547545815.3

61547545816. 4

Question Number: 79 Question Id: 61547511751 Question Type: MCQ Option Shuffling: No Display Question Number: Yes

Single Line Question Option: No Option Orientation: Vertical

Correct Marks: 2 Wrong Marks: 0

What is the theoretical maximum fraction of power in the wind that can be extracted by a horizonal axis wind turbine?

(1) ~ 27 %

(2) ~59 %

(3) ~16 %

(4) ~75%

Options:

61547545813.1

61547545814. 2 61547545815. 3

61547545816. 4

Question Number: 80 Question Id: 61547511752 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Correct Marks: 2 Wrong Marks: 0

Which one of the following is NOT a constituent of photochemical smog?

(1) Peroxy Benzovl Nitrate

(2) Ozone

(3) Polycyclic Aromatic Hydrocarbons

(4) Peroxy Acetyl Nitrate

Options:

61547545817.1

61547545818. 2

61547545819. 3

61547545820.4

Question Number: 80 Question Id: 61547511752 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Correct Marks: 2 Wrong Marks: 0

Which one of the following is NOT a constituent of photochemical smog?

(1) Peroxy Benzovl Nitrate

(2) Ozone

(3) Polycyclic Aromatic Hydrocarbons

(4) Peroxy Acetyl Nitrate

Options:

61547545817.1

61547545818. 2

61547545819.3

61547545820. 4

Question Number: 81 Question Id: 61547511753 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Correct Marks: 2 Wrong Marks: 0

Identify the <u>INCORRECT</u> statement about organophosphate pesticides from the following statements:

- They are generally non-persistent.
- (2) They do not accumulate in the food chain.
- (3) They are toxic to humans.
- (4) They decompose and metabolize slowly.

Options:

615475	545821. 1
615475	545822. 2
615475	545823. 3
615475	545824. 4
Single Li	Number: 81 Question Id: 61547511753 Question Type: MCQ Option Shuffling: No Display Question Number: Yes ne Question Option: No Option Orientation: Vertical Marks: 2 Wrong Marks: 0
	tify the <u>INCORRECT</u> statement about organophosphate pesticides from the following ements:
(1)	They are generally non-persistent.
(2)	They do not accumulate in the food chain.
(3)	They are toxic to humans.
(4)	They decompose and metabolize slowly.
Options :	
_	545821. 1
615475	545822. 2
615475	545823. 3
615475	545824. 4
Question Single Li	Number: 82 Question Id: 61547511754 Question Type: MCQ Option Shuffling: No Display Question Number: Yes ne Question Option: No Option Orientation: Vertical
Correct N	Marks: 2 Wrong Marks: 0
Whe	n a stable layer exists below the stack height and an unstable layer above, which of the

When a stable layer exists below the stack height and an unstable layer above, which of the following types of plume behaviour is expected to be observed?

(1) Looping

(2) Coning

(3) Fumigating

(4) Lofting

Options:

61547545825.1

61547545826. 2

61547545827.3

61547545828.4

 $Question\ Number: 82\ Question\ Id: 61547511754\ Question\ Type: MCQ\ Option\ Shuffling: No\ Display\ Question\ Number: Yes\ Single\ Line\ Question\ Option: No\ Option\ Orientation: Vertical$

When a stable layer exists below the stack height and an unstable layer above, which of the following types of plume behaviour is expected to be observed?

(1) Looping

(2) Coning

(3) Fumigating

(4) Lofting

Options:

61547545825.1

61547545826. 2

61547545827.3

61547545828. 4

Question Number: 83 Question Id: 61547511755 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Correct Marks: 2 Wrong Marks: 0

Sound emitted from a line source attenuates at which of the following rates as a result of geometrical spreading?

- ~ 3 dB per doubling of distance from source
- (2) ~ 4 dB per doubling of distance from source
- (3) ~ 5 dB per doubling of distance from source
- (4) ~ 6 dB per doubling of distance from source

Options:

61547545829. 1

61547545830. 2

61547545831.3

61547545832. 4

Question Number: 83 Question Id: 61547511755 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Correct Marks: 2 Wrong Marks: 0

Sound emitted from a line source attenuates at which of the following rates as a result of geometrical spreading?

- (1) ~ 3 dB per doubling of distance from source
- (2) ~ 4 dB per doubling of distance from source
- (3) ~ 5 dB per doubling of distance from source
- (4) ~ 6 dB per doubling of distance from source

Option	ns: 7545829. 1			
	7545830. 2			
	7545830. 2 7545831. 3			
	7545832. 4			
01547	7545052. 4			
Single 1	on Number: 84 Question Id: 61547511756 Line Question Option: No Option Oriental et Marks: 2 Wrong Marks: 0	Question Type : M tion : Vertical	ICQ	Option Shuffling: No Display Question Number: Yes
		-		
Whic	ch of the following particulate	control devic	es	has the poorest removal efficiency for
parti	icles in the sub-micron size rang	ge?		
(1)	Electrostatic Precipitator	(2)	Fa	abric Filter
(3)	Cyclone	(4)	Ve	enturi Srubber
Option				
	7545833. 1			
	7545834. 2 7545885. 3			
	7545835. 3 7545836. 4			
6154	7545836. 4			
Single 1	on Number: 84 Question Id: 61547511756 Line Question Option: No Option Orientat et Marks: 2 Wrong Marks: 0		ICQ	Option Shuffling: No Display Question Number: Yes
Whic	ch of the following particulate	control devic	es	has the poorest removal efficiency for
	icles in the sub-micron size rang			•
(1)	Electrostatic Precipitator	(2)	Fa	abric Filter
(3)	Cyclone	(4)	Ve	enturi Srubber
Option	as:			
61547	7545833. 1			
61547	7545834. 2			
61547	7545835. 3			
61547	7545836. 4			
Single 1	on Number : 85 Question Id : 61547511757 Line Question Option : No Option Oriental at Marks : 2 Wrong Marks : 0	Question Type : M tion : Vertical	ICQ	Option Shuffling: No Display Question Number: Yes
Δο	coording to Biomedical Waste M	Ianagement Ri	ules	s 2016 of the Government of India, which
		igs should be	use	d for the collection of human anatomical
Wa	aste?			
(1)) Yellow	(2	2)	Red
(3)) White	(4	1)	Blue

Options:	45027 1		
	45837. 1		
	45838. 2		
	45839. 3		
6154/5	45840. 4		
Single Lin	Number: 85 Question Id: 61547 ne Question Option: No Option O Marks: 2 Wrong Marks: 0	511757 Question Type : MC Orientation : Vertical	Q Option Shuffling: No Display Question Number: Yes
Acco	ording to Biomedical Wa	ste Management Rul	es 2016 of the Government of India, which
			sed for the collection of human anatomical
wast	S 1.50	one sugar sinound se u	of in the concessor of named anacomical
		-	1011
(1)	Yellow	(2)	Red
(3)	White	(4)	Blue
Options:			
	45837. 1		
	45838. 2		
	45839. 3		
615475	45840. 4		
Correct M	ne Question Option : No Option (Marks : 2 Wrong Marks : 0 h group of microorganis		al ecosystems?
(1)	Psychrophiles	(2)	Thermophiles
(3)	Mesophiles	(4)	Acidophiles
Options:			
	45841. 1		
	45842. 2		
	45843. 3		
6154/5	45844. 4		
Single Lin	Number: 86 Question Id: 61547 ne Question Option: No Option (Marks: 2 Wrong Marks: 0	511758 Question Type : MC Orientation : Vertical	Q Option Shuffling: No Display Question Number: Yes
Which	h group of microorganis	ms dominate in glacia	al ecosystems?
(1)	Psychrophiles	(2)	Thermophiles
(3)	Mesophiles	(4)	Acidophiles

Options: 61547545841.1 61547545842. 2 61547545843.3

61547545844. 4

Question Number: 87 Question Id: 61547511759 Question Type: MCQ Option Shuffling: No Display Question Number: Yes

Single Line Question Option: No Option Orientation: Vertical

Correct Marks: 2 Wrong Marks: 0

The Article 48A of the Indian Constitution (Directive Principles of State Policy for Environmental Protection) was inducted in 1976 after the

42nd amendment (1)

40th amendment (2)

(3) 28th amendment (4) 14th amendment

Options:

61547545845. 1

61547545846, 2

61547545847.3

61547545848. 4

Question Number: 87 Question Id: 61547511759 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Correct Marks: 2 Wrong Marks: 0

The Article 48A of the Indian Constitution (Directive Principles of State Policy for Environmental Protection) was inducted in 1976 after the

42nd amendment (1)

(2)40th amendment

28th amendment (3)

14th amendment

Options:

61547545845.1

61547545846, 2

61547545847.3

61547545848. 4

Question Number: 88 Question Id: 61547511760 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Which is the first company in India whose project was approved under the Clean Development Mechanism (CDM) of Kyoto Protocol?

- (1) Gujrat Fluorochemicals Ltd.
- (2)Jindal Steel and Power Ltd.

(3)RSPL Ltd.

Inter-Ocean Shipping Private Ltd. (4)

Options:

61547545849. 1

61547545850. 2

61547545851.3

61547545852. 4

Question Number: 88 Question Id: 61547511760 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Correct Marks: 2 Wrong Marks: 0

Which is the first company in India whose project was approved under the Clean Development Mechanism (CDM) of Kyoto Protocol?

- Guirat Fluorochemicals Ltd. (1)
- (2)Jindal Steel and Power Ltd.

(3)RSPL Ltd.

Inter-Ocean Shipping Private Ltd. (4)

Options:

61547545849.1

61547545850.2

61547545851.3

61547545852. 4

Question Number: 89 Question Id: 61547511761 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Correct Marks: 2 Wrong Marks: 0

Section 3B of the Forest (Conservation) Act, 1980 deals with the

- (1) penalty for contravention of the provisions
- cases in which offences are made by authorities (2)
- (3)restriction on the state government for conversion of forests for non-forestry purposes
- provision for using the natural resources from the forest by the community (4)

Options:

61547	545853. 1					
61547	1547545854. 2 1547545855. 3 1547545856. 4					
61547						
61547						
Single L	n Number : 89 Question Id : 61547511 ine Question Option : No Option Orio Marks : 2 Wrong Marks : 0	.761 Question Type: MContation: Vertical	Option Shu	ffling: No Display Question Number: Yes		
Secti	on 3B of the Forest (Conser	vation) Act, 1980 d	als with t	he		
(1)	penalty for contravention	of the provisions				
(2)	cases in which offences ar	re made by authori	ies			
(3)	restriction on the state go	vernment for conve	rsion of fo	rests for non-forestry purposes		
(4)	provision for using the na	tural resources fro	n the fore	st by the community		
Options	:					
61547	545853. 1					
61547	545854. 2					
61547	545855. 3					
61547	545856. 4					
Question Single L	n Number : 90 Question Id : 61547511 ine Question Option : No Option Orio	.762 Question Type : MContation : Vertical	Option Shu	ffling: No Display Question Number: Yes		
Correct	Marks: 2 Wrong Marks: 0					
Gen	der is an example of which	of the following typ	es of varia	ables?		
(1)	Nominal	(2)	Ordinal			
(3)	Interval	(4)	Ratio			
0.4						
Options	:					

61547545857. 1

61547545858. 2

61547545859.3

61547545860.4

 $Question\ Number: 90\ Question\ Id: 61547511762\ Question\ Type: MCQ\ Option\ Shuffling: No\ Display\ Question\ Number: Yes\ Single\ Line\ Question\ Option: No\ Option\ Orientation: Vertical$

Gend	er is an example of which of the follo	wing ty	pes of variables?
(1)	Nominal	(2)	Ordinal
(3)	Interval	(4)	Ratio
	45857. 1		
	45858. 2		
	45859. 3		
615475	45860. 4		
Single Lin	Number: 91 Question Id: 61547511763 Question ne Question Option: No Option Orientation: Vert Iarks: 2 Wrong Marks: 0	Type : MC ical	Q Option Shuffling: No Display Question Number: Yes
Mean	marks of 200 students in statistics a	re 47. T	he mean marks of top 25% students are 72
and t	hat of bottom 25% students are 25.	Which o	f the following are the mean marks of the
	ining students?		
(1)	48.5	(2)	47.5
(3)	45.5	(4)	44.5
Options:	45861. 1		
	45862. 2		
	45863. 3		
	45864. 4		
Single Lin	Number: 91 Question Id: 61547511763 Question the Question Option: No Option Orientation: Vert Starks: 2 Wrong Marks: 0	Type : MC ical	Q Option Shuffling: No Display Question Number: Yes
Mean	marks of 200 students in statistics a	re 47. T	he mean marks of top 25% students are 72
and t	hat of bottom 25% students are 25.	Which o	f the following are the mean marks of the
	ining students?		erese em per la timbala de la proposición de la companya de la companya de la companya de la companya de la co
(1)	48.5	(2)	47.5

(4) 44.5

(3)

Options:

61547545861. 1 61547545862. 2 61547545863. 3 61547545864. 4

45.5

Question Number : 92 Question Id : 61547511764 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks: 2 Wrong Marks: 0

Which of the following measures of skewness is based on the distance of upper and lower quartiles from the median value in a dataset?

- (1) Karl Pearson's Coefficient of Skewness
- (2) Kelly's Measure of Skewness
- (3) Bowley's Coefficient of Skewness
- (4) Coefficient of Skewness based on moments

Options:

61547545865.1

61547545866, 2

61547545867.3

61547545868. 4

Question Number : 92 Question Id : 61547511764 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks: 2 Wrong Marks: 0

Which of the following measures of skewness is based on the distance of upper and lower quartiles from the median value in a dataset?

- (1) Karl Pearson's Coefficient of Skewness
- (2) Kelly's Measure of Skewness
- (3) Bowley's Coefficient of Skewness
- (4) Coefficient of Skewness based on moments

Options:

61547545865.1

61547545866. 2

61547545867.3

61547545868. 4

Question Number: 93 Question Id: 61547511765 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

In an objective type examination, there are 100 questions. One mark is awarded for each correct answer and 0.125 marks are deducted for each incorrect answer. The number of marks scored by the students in this examination is an example of which of the following types of variables?

(1) Discrete

(2) Continuous

(3) Nominal

(4) Ordinal

Options:

61547545869.1

61547545870. 2

61547545871.3

61547545872.4

Question Number: 93 Question Id: 61547511765 Question Type: MCQ Option Shuffling: No Display Question Number: Yes

Single Line Question Option: No Option Orientation: Vertical

Correct Marks: 2 Wrong Marks: 0

In an objective type examination, there are 100 questions. One mark is awarded for each correct answer and 0.125 marks are deducted for each incorrect answer. The number of marks scored by the students in this examination is an example of which of the following types of variables?

(1) Discrete

(2) Continuous

(3) Nominal

(4) Ordinal

Options:

61547545869.1

61547545870.2

61547545871.3

61547545872. 4

Question Number : 94 Question Id : 61547511766 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

The probability density function of a continuous random variable x is given by

$$f(x) = \begin{cases} 3e^{-x} & for \ x > 0 \\ 0 & for \ x \le 0 \end{cases}$$

Which of the following would be the probability that x lies between 1 and 2?

(1)
$$e^{-3} - e^{-6}$$

(2)
$$e^{-6} - e^{-3}$$

(3)
$$9(e^{-6}-e^{-3})$$

(4)
$$9(e^{-3}-e^{-6})$$

Options:

61547545873.1

61547545874. 2

61547545875. 3

61547545876.4

Question Number: 94 Question Id: 61547511766 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Correct Marks: 2 Wrong Marks: 0

The probability density function of a continuous random variable x is given by

$$f(x) = \begin{cases} 3e^{-x} & for \ x > 0 \\ 0 & for \ x \le 0 \end{cases}$$

Which of the following would be the probability that x lies between 1 and 2?

(1)
$$e^{-3} - e^{-6}$$

(2)
$$e^{-6} - e^{-3}$$

(3)
$$9(e^{-6}-e^{-3})$$

(2)
$$e^{-6} - e^{-3}$$

(4) $9(e^{-3} - e^{-6})$

Options:

61547545873.1

61547545874. 2

61547545875.3

61547545876, 4

Question Number: 95 Question Id: 61547511767 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

If x and y are two variables that are not independent, then which of the following represents the variance Var(ax+by) of their linear combination, where 'a' and 'b' are constants?

- (1) $a^2 \operatorname{Var}(x) + b^2 \operatorname{Var}(y)$
- (2) a2 Var(x) b2 Var(y)
- (3) $a^2 \operatorname{Var}(x) + b^2 \operatorname{Var}(y) + 2ab \operatorname{Cov}(x,y)$
- (4) $a^2 \operatorname{Var}(x) + b^2 \operatorname{Var}(y) 2ab \operatorname{Cov}(x,y)$

Options:

61547545877. 1

61547545878. 2

61547545879.3

61547545880.4

Question Number: 95 Question Id: 61547511767 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Correct Marks: 2 Wrong Marks: 0

If x and y are two variables that are not independent, then which of the following represents the variance Var(ax+by) of their linear combination, where 'a' and 'b' are constants?

- (1) $a^2 \operatorname{Var}(x) + b^2 \operatorname{Var}(y)$
- (2) a2 Var(x) b2 Var(y)
- (3) $a^2 \operatorname{Var}(x) + b^2 \operatorname{Var}(y) + 2ab \operatorname{Cov}(x,y)$
- (4) $a^2 \operatorname{Var}(x) + b^2 \operatorname{Var}(y) 2ab \operatorname{Cov}(x,y)$

Options:

61547545877.1

61547545878. 2

61547545879.3

61547545880. 4

Question Number : 96 Question Id : 61547511768 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks: 2 Wrong Marks: 0

Which is the most significant fingerprint of climate change with respect to biotic invasion?

(1) Protozoa

(2) Mosquitoes

(3) Bryophytes

(4) Gymnosperms

Options:

61547545881.1

61547545882. 2

6154/	545883. 3		
61547	545884. 4		
Single Li	n Number: 96 Question Id: 61547511768 Question Ty ine Question Option: No Option Orientation: Vertical Marks: 2 Wrong Marks: 0	pe : M(CQ Option Shuffling: No Display Question Number: Yes
Whic	h is the most significant fingerprint of c	limat	e change with respect to biotic invasion?
(1)	Protozoa	(2)	Mosquitoes
(3)	Bryophytes	(4)	Gymnosperms
Options	:		
61547	545881. 1		
61547	545882. 2		
61547	545883. 3		
61547	545884. 4		
Single Li	n Number: 97 Question Id: 61547511769 Question Ty ine Question Option: No Option Orientation: Vertical Marks: 2 Wrong Marks: 0	pe : MC	CQ Option Shuffling: No Display Question Number: Yes
Whic	h of the following greenhouse gases has	contr	ributed the most to the global warming?
(1)	Methane	(2)	Carbondioxide
(3)	Nitrous Oxide	(4)	Ozone
615475 615475	: 545885. 1 545886. 2 545887. 3 545888. 4		
Single Li	n Number: 97 Question Id: 61547511769 Question Ty ine Question Option: No Option Orientation: Vertical Marks: 2 Wrong Marks: 0	pe : MC	CQ Option Shuffling: No Display Question Number: Yes
Whic	h of the following greenhouse gases has	contr	ributed the most to the global warming?
(1)	Methane	(2)	Carbondioxide
(3)	Nitrous Oxide	(4)	Ozone
615475 615475	: 545885. 1 545886. 2 545887. 3 545888. 4		

Question Number: 98 Question Id: 61547511770 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Correct Marks: 2 Wrong Marks: 0

Who was the woman activist, who initiated the Chipko movement in Reni village of Chamoli district in 1973?

(1) Smt. Vimala Bahuguna

(2) Smt. Gaura Devi

(3) Smt. Ila Bhatt

(4) Smt. Amrita Devi

Options:

61547545889.1

61547545890. 2

61547545891.3

61547545892. 4

Question Number: 98 Question Id: 61547511770 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Correct Marks: 2 Wrong Marks: 0

Who was the woman activist, who initiated the Chipko movement in Reni village of Chamoli district in 1973?

(1) Smt. Vimala Bahuguna

(2) Smt. Gaura Devi

(3) Smt. Ila Bhatt

(4) Smt. Amrita Devi

Options:

61547545889. 1

61547545890. 2

61547545891.3

61547545892. 4

Question Number: 99 Question Id: 61547511771 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Correct Marks: 2 Wrong Marks: 0

Suppose a remote sensor records brightness levels in terms of digital numbers (DN) ranging from 0 to 255. The histogram of a scene recorded by the remote sensor shows the brightness values ranging from 60 to 158. A researcher wants to apply Linear Contrast Stretch to all the pixels in the scene. If DN' represents the transformed brightness level of a pixel and DN represents its recorded brightness level, which of the following expressions would be the most appropriate?

(1)
$$DN' = \left(\frac{DN-60}{DN-150}\right) * 255$$

(2)
$$DN^t = \left(\frac{DN-158}{DN-60}\right) * 255$$

(3)
$$DN' = \left(\frac{DN-189}{189-60}\right) * 255$$

(4)
$$DN^t = \left(\frac{DN-60}{158-60}\right) * 255$$

Options:

61547545893.1 61547545894. 2 61547545895.3

61547545896. 4

Question Number: 99 Question Id: 61547511771 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Correct Marks: 2 Wrong Marks: 0

Suppose a remote sensor records brightness levels in terms of digital numbers (DN) ranging from 0 to 255. The histogram of a scene recorded by the remote sensor shows the brightness values ranging from 60 to 158. A researcher wants to apply Linear Contrast Stretch to all the pixels in the scene. If DN' represents the transformed brightness level of a pixel and DN represents its recorded brightness level, which of the following expressions would be the most appropriate?

(1)
$$DN' = \left(\frac{DN-60}{DN-190}\right) * 255$$

(2)
$$DN^t = \left(\frac{DN-158}{DN-60}\right) * 255$$

(3)
$$DN' = \left(\frac{DN-150}{150-60}\right) * 255$$

(4)
$$DN^t = \left(\frac{DN-60}{168-60}\right) * 255$$

Options:

61547545893. 1

61547545894. 2

61547545895.3

61547545896.4

Question Number: 100 Question Id: 61547511772 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Correct Marks: 2 Wrong Marks: 0

Consider the following wavelengths:

 $0.94 \mu m$ (a)

(b) 1.14 μm

1.40 µm (c)

(d) 1.88 µm

Water vapors absorb strongly at which of the above wavelengths?

(1) (a), (b) and (c) only (2) (b), (c) and (d) only

(a), (c) and (d) only (3)

(4) (a), (b), (c) and (d)

Options:

61547545897.1

61547545898. 2

61547545899.3

61547545900.4

Question Number: 100 Question Id: 61547511772 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Consider the following wavelengths:

(a) $0.94 \mu m$ (b) 1.14 μm

1.40 µm (c)

(d) 1.88 µm

Water vapors absorb strongly at which of the above wavelengths?

(1) (a), (b) and (c) only (2) (b), (c) and (d) only

(3)(a), (c) and (d) only (4) (a), (b), (c) and (d)

Options:

61547545897.1

61547545898. 2

61547545899. 3

61547545900.4

Question Number: 101 Question Id: 61547511773 Question Type: MCQ Option Shuffling: No Display Question Number: Yes

Single Line Question Option: No Option Orientation: Vertical

Correct Marks: 2 Wrong Marks: 0

Consider the following statements:

Objects at higher temperatures emit higher amount of electromagnetic Statement I – radiations.

Statement II - Objects with higher temperatures reach their maximum emissive intensity at longer wavelengths.

Which of the above statements is/are correct?

I and II both (1)

(2) I only

(3) II only Neither I nor II

Options:

61547545901.1

61547545902. 2

61547545903.3

61547545904. 4

Question Number: 101 Question Id: 61547511773 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Consider the following statements:

Statement I – Objects at higher temperatures emit higher amount of electromagnetic radiations.

Statement II - Objects with higher temperatures reach their maximum emissive intensity at longer wavelengths.

Which of the above statements is/are correct?

(1) I and II both

(2) I only

(3) II only

(4) Neither I nor II

Options:

61547545901.1

61547545902. 2

61547545903.3

61547545904. 4

Question Number: 102 Question Id: 61547511774 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Option (Vestion)

Single Line Question Option: No Option Orientation: Vertical

Correct Marks: 2 Wrong Marks: 0

Consider the following statements:

- (a) Chromium (III) chemical species is more toxic than Chromium (VI)
- (b) Dimethylmercury chemical species is more toxic than methylmercury ion
- (c) Arsenic (III) is more toxic than Arsenic (V)

Which of the above statements is/are correct?

(1) (b) only

(2) (a), (b) and (c)

(3) (c) only

(4) (a) and (c) only

Options:

61547545905.1

61547545906. 2

61547545907.3

61547545908.4

Question Number: 102 Question Id: 61547511774 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Consider the following statements:

- Chromium (III) chemical species is more toxic than Chromium (VI) (a)
- Dimethylmercury chemical species is more toxic than methylmercury ion (b)
- Arsenic (III) is more toxic than Arsenic (V) (c)

Which of the above statements is/are correct?

(1) (b) only (2) (a), (b) and (c)

(3)(c) only (4) (a) and (c) only

Options:

61547545905.1

61547545906. 2

61547545907.3

61547545908. 4

 $Question\ Number: 103\ Question\ Id: 61547511775\ Question\ Type: MCQ\ Option\ Shuffling: No\ Display\ Question\ Number: Yes\ Single\ Line\ Question\ Option: No\ Option\ Orientation: Vertical$

Correct Marks: 2 Wrong Marks: 0

Consider the following changes with regard to dissolution of ammonia in water:

- increase in temperature (a)
- decrease in pH of the solution (b)
- increase in partial pressure of ammonia (c)

The solubility of ammonia would increase by which of the above changes?

(1) (a) and (b) only

(2)(a), (b) and (c)

(3)(b) and (c) only (4) (a) only

Options:

61547545909. 1

61547545910. 2

61547545911.3

61547545912. 4

Question Number: 103 Question Id: 61547511775 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

(a)	increase in temperature				
(b)	decrease in pH of the solution				
(c)	increase in partial pressure of	f ammonia			
The	solubility of ammonia would inc	rease by whic	h of the above changes?		
(1)	(a) and (b) only	(2)	(a), (b) and (c)		
(3)	(b) and (c) only	(4)	(a) only		
	: 545909. 1 545910. 2				
	545910. 2 545911. 3				
615475					
615475 615475 Question Single Li	545911. 3 545912. 4	Question Type : MC : Vertical	CQ Option Shuffling: No Display Question Number: Y	Yes	
615475 615475 Question Single Li	545911. 3 545912. 4 Number: 104 Question Id: 61547511776 Question Option: No Option Orientation Marks: 2 Wrong Marks: 0	Question Type : MC : Vertical	CQ Option Shuffling: No Display Question Number: Y	Yes	
615479 615479 Question Single Li Correct I	545911. 3 545912. 4 Number: 104 Question Id: 61547511776 Question Option: No Option Orientation Marks: 2 Wrong Marks: 0 sider the following gases:	Puestion Type : MC : Vertical	CQ Option Shuffling: No Display Question Number: Y	Yes	
615479 615479 Question Single Li Correct I	545911. 3 545912. 4 Number: 104 Question Id: 61547511776 Question Option: No Option Orientation Marks: 2 Wrong Marks: 0 sider the following gases: CO	Question Type : MC : Vertical	CQ Option Shuffling: No Display Question Number: N	Yes	
615479 615479 Question Single Li Correct 1 Cons (a) (b)	545911. 3 545912. 4 Number: 104 Question Id: 61547511776 Question Option: No Option Orientation Marks: 2 Wrong Marks: 0 sider the following gases: CO CH4	Question Type : MC : Vertical	CQ Option Shuffling: No Display Question Number: Y	Yes	
Question Single Li Correct I Cons (a) (b) (c)	545911. 3 545912. 4 Number: 104 Question Id: 61547511776 Question Option: No Option Orientation Marks: 2 Wrong Marks: 0 sider the following gases: CO CH4 HCFCs	Question Type : MC : Vertical	CQ Option Shuffling: No Display Question Number: Y	Yes	
615475 615475 Question Single Li Correct I Cons (a) (b) (c) (d) (e)	545911. 3 545912. 4 Number: 104 Question Id: 61547511776 Question Option: No Option Orientation Marks: 2 Wrong Marks: 0 sider the following gases: CO CH4 HCFCs CO2	: Vertical		Y es	
615475 615475 Question Single Li Correct I Cons (a) (b) (c) (d) (e)	545911. 3 545912. 4 Number: 104 Question Id: 61547511776 Question Option: No Option Orientation Marks: 2 Wrong Marks: 0 sider the following gases: CO CH4 HCFCs CO2 SO3	: Vertical		Yes	

Options:

61547545913.1

61547545914.2

61547545915.3

61547545916.4

 $Question\ Number: 104\ Question\ Id: 61547511776\ Question\ Type: MCQ\ Option\ Shuffling: No\ Display\ Question\ Number: Yes\ Single\ Line\ Question\ Option: No\ Option\ Orientation: Vertical$

Cons	sider the following gases:		
(a)	CO		
(b)	CH ₄		
(c)	HCFCs		
(d)	CO ₂		
(e)	SO₃		
Thos	se gases removed from the atmos	phere by the	process of oxidation are:
(1)	(a), (b), (c) and (d) only	(2)	(a), (b) and (c) only
(3)	(a), (d) and (e) only	(4)	(a), (b), (c), (d) and (e)
Options : 615479	: 545913. 1		
	545914. 2		
	545915. 3		
615475	545916. 4		
Single Li	Number: 105 Question Id: 61547511777 Question Option: No Option Orientation Marks: 2 Wrong Marks: 0	puestion Type : MO : Vertical	CQ Option Shuffling: No Display Question Number: Yes
In ec	ological sampling, Importance Va	alue In <mark>d</mark> ex re	fers to sum of which of the following?
(a)	Relative density		
(b)	Relative frequency		
(c)	Relative abundance		
(d)	Relative dominance		
Choo	se the correct answer from the op	ptions given l	pelow:
(1)	(a), (b) and (c)	(2)	(a), (c) and (d)

(3) (b), (c) and (d)

(4) (a), (b) and (d)

Options:

61547545917.1

61547545918. 2

61547545919.3

61547545920.4

 $Question\ Number: 105\ Question\ Id: 61547511777\ Question\ Type: MCQ\ Option\ Shuffling: No\ Display\ Question\ Number: Yes\ Single\ Line\ Question\ Option: No\ Option\ Orientation: Vertical$

D. I. C.		
Relative frequency		
Relative abundance		
Relative dominance		
e the correct answer from t	he options given	below:
(a), (b) and (c)	(2)	(a), (c) and (d)
(b), (c) and (d)	(4)	(a), (b) and (d)
ler the following characteri	istics of plant spe	cies:
1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2		
-		
The second secon	6 '1 1'	1 - 1
production of large number	er of easily disper	sed seeds
of the above characterize t	the early successi	ional (pioneer) plant communities?
(a) and (b) only	(2)	(a) and (c) only
(b) and (c) only	(4)	(a) and (d) only
5921. 1		
5921. 1 5922. 2		
	Relative dominance the correct answer from to (a), (b) and (c) (b), (c) and (d) 45917. 1 45918. 2 45919. 3 45920. 4 Rumber: 106 Question Id: 61547511 the Question Option: No Option Orientarks: 2 Wrong Marks: 0 therefollowing characterismall size long life span low rate of growth production of large number of the above characterize to (a) and (b) only	Relative dominance the correct answer from the options given (a), (b) and (c) (2) (b), (c) and (d) (4) 15917. 1 15918. 2 15919. 3 15920. 4 Sumber: 106 Question Id: 61547511778 Question Type: Me e Question Option: No Option Orientation: Vertical arks: 2 Wrong Marks: 0 Her the following characteristics of plant spensall size long life span low rate of growth production of large number of easily dispersion of the above characterize the early successive (a) and (b) only (2)

 $Question\ Number: 106\ Question\ Id: 61547511778\ Question\ Type: MCQ\ Option\ Shuffling: No\ Display\ Question\ Number: Yes\ Single\ Line\ Question\ Option: No\ Option\ Orientation: Vertical$

Consider the following characteri	istics of plant spec	cies:			
(a) small size					
(b) long life span	long life span				
(c) low rate of growth	low rate of growth				
(d) production of large number	er of easily dispers	sed seeds			
Which of the above characterize t	the early succession	onal (pioneer) plant o	communities?		
(1) (a) and (b) only	(2)	(a) and (c) only			
(3) (b) and (c) only	(4)	(a) and (d) only			
Options : 31547545921. 1 31547545922. 2					
31547545923. 3 31547545924. 4					
Question Number: 107 Question Id: 61547511 Single Line Question Option: No Option Orien Correct Marks: 2 Wrong Marks: 0	779 Question Type : Mo tation : Vertical	CQ Option Shuffling : No D	isplay Question Number : Yes		
Which among the following a ecosystems?	re considered as	s ecosystem service	s provided by fores		
(a) Resins and gums					
(b) Pollination by insects					
(c) Climate regulation					
(d) Timber					
Choose the correct option:					
(1) (a) and (b) only	(2)	(b) and (c) only			
(3) (b) and (d) only	(4)	(c) and (d) only			

Options:

61547545925.1

61547545926. 2

61547545927.3

61547545928. 4

 $Question\ Number: 107\ Question\ Id: 61547511779\ Question\ Type: MCQ\ Option\ Shuffling: No\ Display\ Question\ Number: Yes\ Single\ Line\ Question\ Option: No\ Option\ Orientation: Vertical$

Which among the following are considered as ecosystem services provided by forest ecosystems?

- (a) Resins and gums
- (b) Pollination by insects
- (c) Climate regulation
- (d) Timber

Choose the correct option:

(1) (a) and (b) only

(2) (b) and (c) only

(3) (b) and (d) only

(4) (c) and (d) only

Options:

61547545925.1

61547545926. 2

61547545927.3

61547545928. 4

Question Number: 108 Question Id: 61547511780 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Correct Marks: 2 Wrong Marks: 0

Assuming the incoming solar radiation to be 100 units, consider the following statements about the radiation budget of earth:

- (a) About 51 units of solar radiation are absorbed by earth's surface.
- (b) About 20 units of long-wave radiation emitted from earth's surface are lost to space directly without being absorbed by the atmosphere.
- (c) About 19 units of solar radiation are absorbed by the atmosphere.

Which of the above statements are correct?

(1) (a) and (b) only

(2) (b) and (c) only

(3) (a) and (c) only

(4) (a), (b) and (c) only

Options:

61547545929. 1

61547545930. 2

61547545931.3

61547545932. 4

Question Number: 108 Question Id: 61547511780 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Assuming the incoming solar radiation to be 100 units, consider the following statements about the radiation budget of earth:

- (a) About 51 units of solar radiation are absorbed by earth's surface.
- (b) About 20 units of long-wave radiation emitted from earth's surface are lost to space directly without being absorbed by the atmosphere.
- (c) About 19 units of solar radiation are absorbed by the atmosphere.

Which of the above statements are correct?

(1) (a) and (b) only

(2) (b) and (c) only

(3) (a) and (c) only

(4) (a), (b) and (c) only

Options:

61547545929.1

61547545930.2

61547545931.3

61547545932. 4

Question Number: 109 Question Id: 61547511781 Question Type: MCQ Option Shuffling: No Display Question Number: Yes

Single Line Question Option: No Option Orientation: Vertical

Correct Marks: 2 Wrong Marks: 0

Which of the following is/are the characteristic(s) of direct band gap semi-conductor Ga-As?

- (a) less sharp absorption band
- (b) large values of extinction coefficient

Choose the correct answer from options given below:

(1) (a) only

(2) (b) only

(3) (a) and (b)

(4) Neither (a) nor (b)

Options:

61547545933. 1

61547545934. 2

61547545935.3

61547545936. 4

Question Number: 109 Question Id: 61547511781 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Single Line Question Option : No Option Orientation : Vertical

Whi	ch of the following is/a	are the characteristic(s)) of direct band gap semi-conductor Ga-As?
(a)	less sharp absorpt	ion band	
(b)	large values of ext	inction coefficient	
Cho	ose the correct answe	r from options given belo	low:
(1)	(a) only	(2)	(b) only
(3)	(a) and (b)	(4)	Neither (a) nor (b)
Options :			
	45933. 1		
	45934. 2		
	45935. 3 45936. 4		
0104/0	15550. 4		
Single Li	Number: 110 Question Id: ne Question Option: No Opt Marks: 2 Wrong Marks: 0	61547511782 Question Type : Micion Orientation : Vertical	MCQ Option Shuffling: No Display Question Number: Y
Solar	insolation on a recta	ingular module (1.5 m x	x 2.0 m) of photovoltaic cells is 550 W/m ² .
the ef	ficiency of the cells is	s 12%, what is the powe	er output of the module?
(1)	396 W	(2)	240 W
(3)	99 W	(4)	198 W
Options :			
	45937. 1		
	45938. 2		
	45939. 3		
6154/5	45940. 4		
Single Li	Number: 110 Question Id: ne Question Option: No Opt Marks: 2 Wrong Marks: 0	61547511782 Question Type : Micion Orientation : Vertical	MCQ Option Shuffling: No Display Question Number: Y
Solar	insolation on a recta	ingular module (1.5 m x	x 2.0 m) of photovoltaic cells is 550 W/m ² .
the ef	ficiency of the cells is	s 12%, what is the powe	er output of the module?
(1)	396 W	(2)	240 W
(3)	99 W	(4)	198 W
Options: 615475	45937. 1		

61547545938. 2 61547545939. 3 61547545940. 4

Question Number: 111 Question Id: 61547511783 Question Type: MCQ Option Shuffling: No Display Question Number: Yes

Single Line Question Option: No Option Orientation: Vertical

Correct Marks: 2 Wrong Marks: 0

In the context of gaseous pollutants control using packed towers, consider the following statements:

- (a) The flow of the effluent gas through a packed tower is countercurrent
- (b) The packing material should have a small surface to volume ratio
- (c) The packing material is used to increase the contact time between the gaseous pollutant and liquid

Which of the above statements are correct?

(1) (a) and (b) only

(2) (b) and (c) only

(3) (a) and (c) only

(4) (a), (b) and (c) only

Options:

61547545941.1

61547545942. 2

61547545943.3

61547545944. 4

Question Number: 111 Question Id: 61547511783 Question Type: MCQ Option Shuffling: No Display Question Number: Yes

Single Line Question Option: No Option Orientation: Vertical

In the context of gaseous pollutants control using packed towers, consider the following statements:

- The flow of the effluent gas through a packed tower is countercurrent (a)
- (b) The packing material should have a small surface to volume ratio
- (c) The packing material is used to increase the contact time between the gaseous pollutant and liquid

Which of the above statements are correct?

(a) and (b) only (1)

(2)(b) and (c) only

(3) (a) and (c) only

(a), (b) and (c) only (4)

Options:

61547545941.1

61547545942. 2

61547545943.3

61547545944. 4

Question Number: 112 Question Id: 61547511784 Question Type: MCQ Option Shuffling: No Display Question Number: Yes

Single Line Question Option: No Option Orientation: Vertical

Correct Marks: 2 Wrong Marks: 0

Consider the following statements regarding water treatment

- Alum is added to water as a coagulating agent. (a)
- (b) Residual chlorine is considered as a major disadvantage of using chlorination for disinfection of water.
- Addition of ammonia to water treated with chlorine leads to the formation of (c) chloramines.

Which of the above statements are correct?

(1) (a) and (b) only (2) (b) and (c) only

(a) and (c) only (3)

(4) (a), (b) and (c) only

Options:

61547545945. 1

61547545946. 2

61547545947.3

61547545948. 4

Question Number: 112 Question Id: 61547511784 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Correct Marks: 2 Wrong Marks: 0

Consider the following statements regarding water treatment

(a) Alum is added to water as a coagulating agent.

- (b) Residual chlorine is considered as a major disadvantage of using chlorination for disinfection of water.
- (c) Addition of ammonia to water treated with chlorine leads to the formation of chloramines.

Which of the above statements are correct?

(1) (a) and (b) only

(2) (b) and (c) only

(3) (a) and (c) only

(4) (a), (b) and (c) only

Options:

61547545945.1

61547545946. 2

61547545947.3

61547545948. 4

Question Number: 113 Question Id: 61547511785 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Single Line Question Option . No Option Orientation . Vertical

Correct Marks: 2 Wrong Marks: 0

Which among the following radioactive species have a half life of more than 10 years?

- (a) $_{36}$ Kr 91
- (b) 38 Sr⁹⁰
- (c) 55 Cs¹³⁷
- (d) $_{40}\mathrm{Zr}^{91}$

Choose the correct option from those given below:

(1) (a) and (c) only

(2) (b) and (c) only

(3) (a) and (d) only

(4) (c) and (d) only

Options:

61547545949.1

615475	45950. 2		
615475	45951. 3		
615475	45952. 4		
Single Lin	Number: 113 Question Id: 6154751178 ne Question Option: No Option Orienta Marks: 2 Wrong Marks: 0	85 Question Type : M tion : Vertical	CQ Option Shuffling: No Display Question Number: Yes
Whic	h among the following radios	active species ha	eve a half life of more than 10 years?
(a)	$_{36}\mathrm{Kr}^{91}$		
(b)	$_{38}{ m Sr}^{90}$		
(c)	$_{55}\mathrm{Cs}^{137}$		
(d)	$_{40}\mathrm{Zr}^{91}$		
Choo	se the correct option from the	ose given below	
(1)	(a) and (c) only	(2)	(b) and (c) only
(3)	(a) and (d) only	(4)	(c) and (d) only
	45949. 1 45950. 2		
615475	45951. 3		
615475	45952. 4		
Single Lin	Number: 114 Question Id: 6154751178 ne Question Option: No Option Orienta Iarks: 2 Wrong Marks: 0	36 Question Type : M tion : Vertical	CQ Option Shuffling: No Display Question Number: Yes
As pe		ne (CRZ) Notific	eation (1991), CRZ-I includes which of the
(a)	Ecosensitive Zones		
(b)	Fishing Zones		
(c)	Intertidal Zones		
(d)	Development Zones		
Choo	se the correct answer from the	e options given l	pelow:
(1)	(a) and (b) only	(2)	(b) and (c) only
(3)	(c) and (d) only	(4)	(a) and (c) only
Options :			

6154/5	45953. 1		
615475	545954. 2		
615475	45955. 3		
615475	45956. 4		
Single Li	Number: 114 Question Id: 6154751178 ne Question Option: No Option Orienta Marks: 2 Wrong Marks: 0	86 Question Type : M ation : Vertical	ICQ Option Shuffling: No Display Question Number: Yes
	er the Coastal Regulation Zo wing?	ne (CRZ) Notific	cation (1991), CRZ-I includes which of the
(a)	Ecosensitive Zones		
(b)	Fishing Zones		
(c)	Intertidal Zones		
(d)	Development Zones		
Choo	se the correct answer from th	e options given l	below:
(1)	(a) and (b) only	(2)	(b) and (c) only
(3)	(c) and (d) only	(4)	(a) and (c) only
Options :			
	345953. 1		
	345954. 2 345055. 3		
	345955. 3 345956. 4		
6154/5	945950. 4		
Single Li	Number: 115 Question Id: 6154751178 ne Question Option: No Option Orienta Marks: 2 Wrong Marks: 0	87 Question Type : M ation : Vertical	CQ Option Shuffling: No Display Question Number: Yes
Cons	sider the following statements	s regarding Pois	son Distribution:
(a)	It is a continuous probabil	ity distribution.	
(b)	It is applicable when 'n' the number of trials is indefinitely large and 'p' the probability of success is indefinitely small.		
(c)	Its mean is equal to its var	riance	
Whi	ch of the above statements ar	e correct?	
(1)	(a) and (b) only	(2)	(b) and (c) only
(3)	(a) and (c) only	(4)	(a), (b) and (c) only
Options : 615475	545957. 1		
615475	45958. 2		

Question Number: 115 Question Id: 61547511787 Question Type: MCQ Option Shuffling: No Display Question Number: Yes

Single Line Question Option: No Option Orientation: Vertical

Correct Marks: 2 Wrong Marks: 0

Consider the following statements regarding Poisson Distribution:

(a) It is a continuous probability distribution.

(b) It is applicable when 'n' the number of trials is indefinitely large and 'p' the probability of success is indefinitely small.

(c) Its mean is equal to its variance

Which of the above statements are correct?

(1) (a) and (b) only

(2) (b) and (c) only

(3) (a) and (c) only

(4) (a), (b) and (c) only

Options:

61547545957. 1

61547545958. 2

61547545959.3

61547545960. 4

Question Number: 116 Question Id: 61547511788 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Option: Vertical

Single Line Question Option: No Option Orientation: Vertical

Correct Marks: 2 Wrong Marks: 0

Consider the following statements regarding sampling:

(a) The sample mean is an unbiased estimate of the population mean.

(b) For small samples, the sample variance is an unbiased estimate of the population variance.

(c) If we reject the null hypothesis when it is actually true, we commit the type-I error in testing the hypothesis.

Which of the above statements are correct?

(1) (a) and (b) only

(2) (a) and (c) only

(3) (b) and (c) only

(4) (a), (b) and (c) only

Options:

61547545961. 1 61547545962. 2 61547545963. 3 61547545964. 4

 $Question\ Number: 116\ Question\ Id: 61547511788\ Question\ Type: MCQ\ Option\ Shuffling: No\ Display\ Question\ Number: Yes\ Single\ Line\ Question\ Option: No\ Option\ Orientation: Vertical$

Correct Marks: 2 Wrong Marks: 0

Consider the following statements regarding sampling:

- (a) The sample mean is an unbiased estimate of the population mean.
- (b) For small samples, the sample variance is an unbiased estimate of the population variance.
- (c) If we reject the null hypothesis when it is actually true, we commit the type-I error in testing the hypothesis.

Which of the above statements are correct?

(1) (a) and (b) only

(2) (a) and (c) only

(3) (b) and (c) only

(4) (a), (b) and (c) only

Options:

61547545961.1

61547545962. 2

61547545963.3

61547545964. 4

Question Number: 117 Question Id: 61547511789 Question Type: MCQ Option Shuffling: No Display Question Number: Yes

Single Line Question Option: No Option Orientation: Vertical

Consider the following statements regarding Chi-Square test:

- (a) If X is a random variable following normal distribution with mean μ and standard deviation σ , then $\left(\frac{X-\mu}{\sigma}\right)^2$ is a Chi-Square variate with 1 degree of freedom
- (b) It is an appropriate test for testing the goodness of fit of a model/theory to experimental data
- (c) It involves computing the squares of the deviations of observed frequencies from the expected frequencies.

Which of the above statements are correct?

(a) and (b) only

(2) (b) and (c) only

(3) (a) and (c) only

(4) (a), (b) and (c)

Options:

61547545965.1

61547545966. 2

61547545967.3

61547545968. 4

Question Number: 117 Question Id: 61547511789 Question Type: MCQ Option Shuffling: No Display Question Number: Yes

Single Line Question Option: No Option Orientation: Vertical

Consider the following statements regarding Chi-Square test:

- If X is a random variable following normal distribution with mean μ and standard (a) deviation σ , then $\left(\frac{X-\mu}{\sigma}\right)^2$ is a Chi-Square variate with 1 degree of freedom
- It is an appropriate test for testing the goodness of fit of a model/theory to (b) experimental data
- (c) It involves computing the squares of the deviations of observed frequencies from the expected frequencies.

Which of the above statements are correct?

(1) (a) and (b) only (2) (b) and (c) only

(3)(a) and (c) only (4) (a), (b) and (c)

Options:

61547545965. 1

61547545966, 2

61547545967.3

61547545968. 4

Question Number: 118 Question Id: 61547511790 Question Type: MCQ Option Shuffling: No Display Question Number: Yes

Single Line Question Option: No Option Orientation: Vertical

Correct Marks: 2 Wrong Marks: 0

Consider the following statements about the Lotka-Volterra Model:

- Both the populations of prev and predator oscillate sinusoidically. (a)
- There is a phase difference of $\pi/2$ between the prey and predator populations. (b)
- Populations of prey and predator are directly proportional, to each other (c)
- (d) Population of prey and predator are inversely proportional, to each other

Which of the above statements are correct?

- (1) (a) and (b) only
- (2)(a) and (c) only
- (3) (a) and (d) only
- (4) (b) and (d) only

Options:

61547545969. 1

61547545970. 2

61547545971.3

61547545972. 4

Question Number: 118 Question Id: 61547511790 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Correct Marks: 2 Wrong Marks: 0

Consider the following statements about the Lotka-Volterra Model:

- Both the populations of prey and predator oscillate sinusoidically. (a)
- There is a phase difference of $\pi/2$ between the prey and predator populations. (b)
- Populations of prey and predator are directly proportional, to each other (c)
- (d) Population of prey and predator are inversely proportional, to each other

Which of the above statements are correct?

- (1) (a) and (b) only
- (2)(a) and (c) only
- (3) (a) and (d) only
- (b) and (d) only (4)

Options:

61547545969. 1

61547545970.2

61547545971.3

61547545972.4

Question Number: 119 Question Id: 61547511791 Question Type: MCQ Option Shuffling: No Display Question Number: Yes

Single Line Question Option: No Option Orientation: Vertical

Correct Marks: 2 Wrong Marks: 0

Which one of the following is the important hotspot of biodiversity in India?

Ganga Basin (1)

Vindhyachal (2)

(3)Western Ghats

Aravali Hills (4)

Options:

61547545973. 1

61547545974. 2

61547545975.3

61547545976, 4

Question Number: 119 Question Id: 61547511791 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical Correct Marks: 2 Wrong Marks: 0			
Which one of the following is the important hotspot of biodiversity in India?			
(1)	Ganga Basin	(2)	Vindhyachal
(3)	Western Ghats	(4)	Aravali Hills
Options: 61547545973. 1			
61547545974. 2			
61547545975. 3			
61547545976. 4			
Question Number: 120 Question Id: 61547511792 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical Correct Marks: 2 Wrong Marks: 0			
Which of the following surfaces exhibits maximum variation in albedo with respect to the			
angle of incidence of solar radiations?			
(1)	Water	(2)	Bare Soil
(3)	Sand	(4)	Vegetation
Options	: 545977. 1		
61547545978. 2			
61547545979. 3			
61547545980. 4			
Question Number: 120 Question Id: 61547511792 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical Correct Marks: 2 Wrong Marks: 0			
Which of the following surfaces exhibits maximum variation in albedo with respect to the angle of incidence of solar radiations?			
(1)	Water	(2)	Bare Soil
(3)	Sand	(4)	Vegetation
Options:			
61547545977. 1 61547545978. 2			
61547545979. 3			

61547545980.4

Question Number: 121 Question Id: 61547511793 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Correct Marks: 2 Wrong Marks: 0

Which among the following is the correct order of stratification in lentic ecosystems from top to bottom?

- (1) Littoral zone, Limnetic zone, Profundal zone, Benthic zone
- (2) Limnetic zone, Littoral zone, Benthic zone, Profundal zone
- (3) Limnetic zone, Benthic zone, Profundal zone, Littoral zone
- (4) Littoral zone, Limnetic zone, Benthic zone, Profundal zone

Options:

61547545981.1

61547545982. 2

61547545983.3

61547545984. 4

Question Number: 121 Question Id: 61547511793 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Correct Marks: 2 Wrong Marks: 0

Which among the following is the correct order of stratification in lentic ecosystems from top to bottom?

- (1) Littoral zone, Limnetic zone, Profundal zone, Benthic zone
- (2) Limnetic zone, Littoral zone, Benthic zone, Profundal zone
- (3) Limnetic zone, Benthic zone, Profundal zone, Littoral zone
- (4) Littoral zone, Limnetic zone, Benthic zone, Profundal zone

Options:

61547545981.1

61547545982. 2

61547545983.3

61547545984. 4

Question Number: 122 Question Id: 61547511794 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Which among the following is the correct sequence of the elements in earth's crust in decreasing order?

- (1) Oxygen > Aluminium > Silicon > Iron
- (2) Oxygen > Silicon > Iron > Aluminium
- (3) Oxygen > Aluminium > Iron > Silicon
- (4) Oxygen > Silicon > Aluminium > Iron

Options:

61547545985.1

61547545986. 2

61547545987.3

61547545988. 4

Question Number: 122 Question Id: 61547511794 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Correct Marks: 2 Wrong Marks: 0

Which among the following is the correct sequence of the elements in earth's crust in decreasing order?

- (1) Oxygen > Aluminium > Silicon > Iron
- (2) Oxygen > Silicon > Iron > Aluminium
- (3) Oxygen > Aluminium > Iron > Silicon
- (4) Oxygen > Silicon > Aluminium > Iron

Options:

61547545985. 1

61547545986. 2

61547545987.3

61547545988.4

Question Number: 123 Question Id: 61547511795 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Correct Marks: 2 Wrong Marks: 0

Identify the correct sequence of processes involved in chemical weathering of rocks:

- (1) Hydrolysis, Solution, Hydration, Oxidation, Carbonation
- (2) Solution, Hydrolysis, Hydration, Carbonation, Oxidation
- (3) Hydrolysis, Oxidation, Carbonation, Hydration, Solution
- (4) Hydrolysis, Hydration, Carbonation, Oxidation, Solution,

Options:

61547545989. 1

61547545990. 2

61547545991.3

61547545992. 4

Question Number: 123 Question Id: 61547511795 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Correct Marks: 2 Wrong Marks: 0

Identify the correct sequence of processes involved in chemical weathering of rocks:

- (1) Hydrolysis, Solution, Hydration, Oxidation, Carbonation
- (2) Solution, Hydrolysis, Hydration, Carbonation, Oxidation
- (3) Hydrolysis, Oxidation, Carbonation, Hydration, Solution
- (4) Hydrolysis, Hydration, Carbonation, Oxidation, Solution,

Options:

61547545989. 1

61547545990.2

61547545991.3

61547545992. 4

Question Number: 124 Question Id: 61547511796 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Correct Marks: 2 Wrong Marks: 0

Restoration of Doon Valley is an example of best practices of restoration of degraded ecosystem caused by

- (1) over explotation by the high influx of tourists
- (2) construction and widening of roads
- (3) limestone quarrying
- (4) massive civil works of building constructions

Options:

61547545993.1

61547545994. 2

61547545995.3

61547545996. 4

Question Number: 124 Question Id: 61547511796 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Single Line Question Option: No Option Orientation: Vertical

Restoration of Doon Valley is an example of best practices of restoration of degraded ecosystem caused by

- (1) over explotation by the high influx of tourists
- (2) construction and widening of roads
- (3) limestone quarrying
- (4) massive civil works of building constructions

Options:

61547545993.1

61547545994. 2

61547545995.3

61547545996. 4

 $Question\ Number: 125\ Question\ Id: 61547511797\ Question\ Type: MCQ\ Option\ Shuffling: No\ Display\ Question\ Number: Yes\ Single\ Line\ Question\ Option: No\ Option\ Orientation: Vertical$

Correct Marks: 2 Wrong Marks: 0

Which one among the following is the correct order of steps taken during the process of Environmental Impact Assessment (EIA)?

- (1) Scoping, Screening, Public Hearing, EIA, Issue of Environmental Clearance
- (2) Screening, Public Hearing, Scoping, EIA, Issue of Environmental Clearance
- (3) Screening, Scoping, EIA, Public Hearing, Issue of Environmental Clearance
- (4) Screening, EIA, Scoping, Public Hearing, Issue of Environmental Clearance

Options:

61547545997.1

61547545998. 2

61547545999.3

61547546000.4

Question Number: 125 Question Id: 61547511797 Question Type: MCQ Option Shuffling: No Display Question Number: Yes

Single Line Question Option: No Option Orientation: Vertical

Which one among the following is the correct order of steps taken during the process of Environmental Impact Assessment (EIA)?

- (1) Scoping, Screening, Public Hearing, EIA, Issue of Environmental Clearance
- (2) Screening, Public Hearing, Scoping, EIA, Issue of Environmental Clearance
- (3) Screening, Scoping, EIA, Public Hearing, Issue of Environmental Clearance
- (4) Screening, EIA, Scoping, Public Hearing, Issue of Environmental Clearance

Options:

61547545997.1

61547545998. 2

61547545999.3

61547546000.4

Question Number: 126 Question Id: 61547511798 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Correct Marks: 2 Wrong Marks: 0

Match List-I and List-II containing microorganisms and processes associated with them:

List I

(Microorganisms)

List II

(Processes)

- (a) Bacillus
- (b) Agrobacterium
- (c) Rhizobium
- (d) Thiobacillus

- (i) Denitrification
- (ii) Ammonification
- (iii) Sulphur into Sulphate
- (iv) N-fixation

Choose the correct answer from the options given below:

- (1) (a)-(i), (b)-(iii), (c)-(iv), (d)-(ii)
- (2) (a)-(ii), (b)-(iv), (c)-(i), (d)-(iii)
- (3) (a)-(iii), (b)-(iv), (c)-(ii), (d)-(i)
- (4) (a)-(ii), (b)-(i), (c)-(iv), (d)-(iii)

Options:

61547546001.1

61547546002.2

61547546003.3

61547546004.4

Question Number: 126 Question Id: 61547511798 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Match List-I and List-II containing microorganisms and processes associated with them:

List I

(Microorganisms)

List II

(Processes)

- Bacillus (a)
- Agrobacterium (b)
- Rhizobium (c)
- (d) Thiobacillus

- (i) Denitrification
- (ii) Ammonification
- (iii) Sulphur into Sulphate
- (iv) N-fixation

Choose the correct answer from the options given below:

- (a)-(i), (b)-(iii), (c)-(iv), (d)-(ii) (1)
- (2)(a)-(ii), (b)-(iv), (c)-(i), (d)-(iii)
- (a)-(iii), (b)-(iv), (c)-(ii), (d)-(i) (3)
- (4) (a)-(ii), (b)-(i), (c)-(iv), (d)-(iii)

Options:

61547546001.1

61547546002.2

61547546003.3

61547546004.4

 $Question\ Number: 127\ Question\ Id: 61547511799\ Question\ Type: MCQ\ Option\ Shuffling: No\ Display\ Question\ Number: Yes\ Single\ Line\ Question\ Option: No\ Option\ Orientation: Vertical$

Match the following parameters characterizing humidity of the atmosphere with their definitions:

Humidity Parameters

- (a) Relative Humidity
- (b) Absolute Humidity
- (c) Specific Humidity
- (d) Mixing Ratio

Definitions

- (i) Weight of water vapour per unit volume of air at a given temperature
- (ii) Weight of water vapour per unit weight of total air at a given temperature
- (iii) Ratio of vapour pressure to the saturation vapour pressure in percentage at a given temperature
- (iv) Weight of water vapour per unit weight of dry air at a given temperature

Choose the correct option from those given below:

- (1) (a)-(i), (b)-(iii), (c)-(ii), (d)-(iv)
- (2) (a)-(iii), (b)-(ii), (c)-(i), (d)-(iv)
- (3) (a)-(iii), (b)-(i), (c)-(iv), (d)-(ii)
- (4) (a)-(iii), (b)-(i), (c)-(ii), (d)-(iv)

Options:

61547546005. 1

61547546006. 2

61547546007.3

61547546008.4

Question Number: 127 Question Id: 61547511799 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Match the following parameters characterizing humidity of the atmosphere with their definitions:

Humidity Parameters

- Relative Humidity (a)
- Absolute Humidity (b)
- Specific Humidity (c)
- Mixing Ratio (d)

Definitions

- (i) Weight of water vapour per unit volume of air at a given temperature
- Weight of water vapour per unit (ii) weight of total air at a given temperature
- (iii) Ratio of vapour pressure to the saturation vapour pressure percentage at a given temperature
- (iv) Weight of water vapour per unit weight of dry air at a given temperature

Choose the correct option from those given below:

- (a)-(i), (b)-(iii), (c)-(ii), (d)-(iv) (1)
- (2)(a)-(iii), (b)-(ii), (c)-(i), (d)-(iv)
- (a)-(iii), (b)-(i), (c)-(iv), (d)-(ii) (3)
- (a)-(iii), (b)-(i), (c)-(ii), (d)-(iv) (4)

Options:

61547546005. 1

61547546006. 2

61547546007.3

61547546008.4

Question Number: 128 Question Id: 61547511800 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Match the following iron oxides with their chemical formulae:

Iron Oxides

Chemical Formulae

(a) Haematite

(i) FeO.TiO₂

(b) Magnetite

(ii) Fe₃O₄

(c) Ilmenite

(iii) FeO.H₂O

(d) Limonite

(iv) Fe₂O₃

Choose the correct option from those given below:

- (1) (a)-(iv), (b)-(ii), (c)-(iii), (d)-(i)
- (2) (a)-(ii), (b)-(iv), (c)-(i), (d)-(iii)
- (3) (a)-(ii), (b)-(iv), (c)-(iii), (d)-(i)
- (4) (a)-(iv), (b)-(ii), (c)-(i), (d)-(iii)

Options:

61547546009.1

61547546010.2

61547546011.3

61547546012. 4

Question Number: 128 Question Id: 61547511800 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Option: No Option Option: No Option Option (Vertical)

Single Line Question Option : No Option Orientation : Vertical

Match the following iron oxides with their chemical formulae:

Iron Oxides

Chemical Formulae

(a) Haematite

(i) FeO.TiO₂

(b) Magnetite

(ii) Fe₃O₄

(c) Ilmenite

(iii) FeO.H₂O

(d) Limonite

(iv) Fe₂O₃

Choose the correct option from those given below:

- (1) (a)-(iv), (b)-(ii), (c)-(iii), (d)-(i)
- (2) (a)-(ii), (b)-(iv), (c)-(i), (d)-(iii)
- (3) (a)-(ii), (b)-(iv), (c)-(iii), (d)-(i)
- (4) (a)-(iv), (b)-(ii), (c)-(i), (d)-(iii)

Options:

61547546009.1

61547546010.2

61547546011.3

61547546012. 4

Question Number: 129 Question Id: 61547511801 Question Type: MCQ Option Shuffling: No Display Question Number: Yes

Single Line Question Option : No Option Orientation : Vertical

Match the following discontinuities with the boundaries they are found at.

Discontinuities

- (a) Mohorovicic discontinuity
- (b) Conrad discontinuity
- (c) Lehman discontinuity
- (d) Gutenberg discontinuity

Boundaries Between

- (i) Lower mantle and outer core
- (ii) Hydrosphere and crust
- (iii) Lower crust and upper mantle
- (iv) Outer core and inner core

Choose the correct option from those given below:

- (1) (a)-(iii), (b)-(ii), (c)-(iv), (d)-(i)
- (2) (a)-(i), (b)-(iii), (c)-(ii), (d)-(iv)
- (3) (a)-(iii), (b)-(ii), (c)-(i), (d)-(iv)
- (4) (a)-(iv), (b)-(iii), (c)-(ii), (d)-(i)

Options:

61547546013.1

61547546014.2

61547546015.3

61547546016.4

Question Number: 129 Question Id: 61547511801 Question Type: MCQ Option Shuffling: No Display Question Number: Yes

Single Line Question Option: No Option Orientation: Vertical

Match the following discontinuities with the boundaries they are found at.

Discontinuities

- (a) Mohorovicic discontinuity
- (b) Conrad discontinuity
- (c) Lehman discontinuity
- (d) Gutenberg discontinuity

Boundaries Between

- (i) Lower mantle and outer core
- (ii) Hydrosphere and crust
- (iii) Lower crust and upper mantle
- (iv) Outer core and inner core

Choose the correct option from those given below:

- (1) (a)-(iii), (b)-(ii), (c)-(iv), (d)-(i)
- (2) (a)-(i), (b)-(ii), (c)-(ii), (d)-(iv)
- (3) (a)-(iii), (b)-(ii), (c)-(i), (d)-(iv)
- (4) (a)-(iv), (b)-(iii), (c)-(ii), (d)-(i)

Options:

61547546013.1

61547546014.2

61547546015.3

61547546016.4

Question Number: 130 Question Id: 61547511802 Question Type: MCQ Option Shuffling: No Display Question Number: Yes

Single Line Question Option: No Option Orientation: Vertical

Match the following commonly used separation equipments with their separates:

Equipment

- (a) Electromagnetic Separator
- (b) Trommel Screen
- (c) Air Classifier
- (d) Eddy Current Separator

Separate

- (i) Heavy and light fraction
- (ii) Non-ferrous metals
- (iii) Ferrous Metals
- (iv) Particulates

Choose the correct option from those given below:

- (1) (a)-(i), (b)-(ii), (c)-(iv), (d)-(iii)
- (2) (a)-(iii), (b)-(iv), (c)-(i), (d)-(ii)
- (3) (a)-(ii), (b)-(iv), (c)-(iii), (d)-(i)
- (4) (a)-(iii), (b)-(i), (c)-(iv), (d)-(ii)

Options:

61547546017.1

61547546018.2

61547546019.3

61547546020.4

Question Number: 130 Question Id: 61547511802 Question Type: MCQ Option Shuffling: No Display Question Number: Yes

Single Line Question Option : No Option Orientation : Vertical

Match the following commonly used separation equipments with their separates:

Equipment

- (a) Electromagnetic Separator
- (b) Trommel Screen
- (c) Air Classifier
- (d) Eddy Current Separator

Separate

- (i) Heavy and light fraction
- (ii) Non-ferrous metals
- (iii) Ferrous Metals
- (iv) Particulates

Choose the correct option from those given below:

- (1) (a)-(i), (b)-(ii), (c)-(iv), (d)-(iii)
- (2) (a)-(iii), (b)-(iv), (c)-(i), (d)-(ii)
- (3) (a)-(ii), (b)-(iv), (c)-(iii), (d)-(i)
- (4) (a)-(iii), (b)-(i), (c)-(iv), (d)-(ii)

Options:

61547546017.1

61547546018.2

61547546019.3

61547546020.4

Question Number: 131 Question Id: 61547511803 Question Type: MCQ Option Shuffling: No Display Question Number: Yes

Single Line Question Option : No Option Orientation : Vertical

Match List-I and List-II containing Acts and their year of enactment:

List I List II Act Year of Enactment The Environment Protection Act 1980 (a) (i) The Forest Conservation Act (ii) 1981 (b) (c) Water (Prevention & Control) Act (iii) 1986 Air (Prevention & Control) Act (d) (iv) 1974

Choose the correct option from those given below:

- (1) (a)-(i), (b)-(iii), (c)-(iv), (d)-(ii)
- (2)(a)-(iii), (b)-(i), (c)-(iv), (d)-(ii)
- (3) (a)-(ii), (b)-(iv), (c)-(iii), (d)-(i)
- (a)-(iv), (b)-(ii), (c)-(iii), (d)-(i) (4)

Options:

61547546021.1

61547546022. 2

61547546023.3

61547546024.4

Question Number: 131 Question Id: 61547511803 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Match List-I and List-II containing Acts and their year of enactment:

List I List II Act Year of Enactment The Environment Protection Act 1980 (a) (i) The Forest Conservation Act (ii) 1981 (b) (c) Water (Prevention & Control) Act (iii) 1986 Air (Prevention & Control) Act (d) (iv) 1974

Choose the correct option from those given below:

- (1) (a)-(i), (b)-(iii), (c)-(iv), (d)-(ii)
- (2)(a)-(iii), (b)-(i), (c)-(iv), (d)-(ii)
- (3) (a)-(ii), (b)-(iv), (c)-(iii), (d)-(i)
- (a)-(iv), (b)-(ii), (c)-(iii), (d)-(i) (4)

Options:

61547546021.1

61547546022. 2

61547546023.3

61547546024.4

Question Number: 132 Question Id: 61547511804 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Match the celebration of days related to environment with their corresponding dates:

List I

List II

Days

Dates

(a) Earth Day

(i) 2nd February

(b) International Ozone Day

(ii) 16th September

(c) International Biodiversity Day

(iii) 22nd April

(d) Wetland Day

(iv) 22nd May

Choose the correct option from those given below:

- (1) (a)-(ii), (b)-(iii), (c)-(i), (d)-(iv)
- (2) (a)-(iv), (b)-(ii), (c)-(iii), (d)-(i)
- (3) (a)-(iii), (b)-(ii), (c)-(i), (d)-(iv)
- (4) (a)-(iii), (b)-(ii), (c)-(iv), (d)-(i)

Options:

61547546025.1

61547546026. 2

61547546027.3

61547546028. 4

Question Number: 132 Question Id: 61547511804 Question Type: MCQ Option Shuffling: No Display Question Number: Yes

Single Line Question Option: No Option Orientation: Vertical

Match the celebration of days related to environment with their corresponding dates:

List I

List II

Days

Dates

(a) Earth Day

(i) 2nd February

(b) International Ozone Day

(ii) 16th September

(c) International Biodiversity Day

(iii) 22nd April

(d) Wetland Day

(iv) 22nd May

Choose the correct option from those given below:

- (1) (a)-(ii), (b)-(iii), (c)-(i), (d)-(iv)
- (2) (a)-(iv), (b)-(ii), (c)-(iii), (d)-(i)
- (3) (a)-(iii), (b)-(ii), (c)-(i), (d)-(iv)
- (4) (a)-(iii), (b)-(ii), (c)-(iv), (d)-(i)

Options:

61547546025.1

61547546026. 2

61547546027.3

61547546028. 4

Question Number: 133 Question Id: 61547511805 Question Type: MCQ Option Shuffling: No Display Question Number: Yes

Single Line Question Option: No Option Orientation: Vertical

Assertion (A): The increase in sea water acidity makes building and maintaining shells

and other calcium carbonate structures difficult for calcifying organisms

such as oyster and water corals.

Reasons (R): Increase in sea water acidity causes a decrease in bicarbonate ion

concentration.

In the light of above two statements, choose the correct option:

- (1) Both (A) and (R) are true and (R) is the correct explanation of (A).
- (2) Both (A) and (R) are true but (R) is not the correct explanation of (A).
- (3) (A) is true but (R) is false.
- (4) (A) is false but (R) is true.

Options:

61547546029.1

61547546030.2

61547546031.3

61547546032.4

Question Number: 133 Question Id: 61547511805 Question Type: MCQ Option Shuffling: No Display Question Number: Yes

Single Line Question Option: No Option Orientation: Vertical

Assertion (A): The increase in sea water acidity makes building and maintaining shells

and other calcium carbonate structures difficult for calcifying organisms

such as oyster and water corals.

Reasons (R): Increase in sea water acidity causes a decrease in bicarbonate ion

concentration.

In the light of above two statements, choose the correct option:

- (1) Both (A) and (R) are true and (R) is the correct explanation of (A).
- (2) Both (A) and (R) are true but (R) is not the correct explanation of (A).
- (3) (A) is true but (R) is false.
- (4) (A) is false but (R) is true.

Options:

61547546029.1

61547546030. 2

61547546031.3

61547546032.4

Question Number: 134 Question Id: 61547511806 Question Type: MCQ Option Shuffling: No Display Question Number: Yes

Single Line Question Option: No Option Orientation: Vertical

Assertion (A): There is a general pattern of increase in biodiversity from equator to poles.

Reasons (R): Due to high level of energy received in tropics, higher is the net primary production, which in turn supports large number of individuals, leading to

high biodiversity.

In the light of above two statements, choose the correct option:

- (1) Both (A) and (R) are true and (R) is the correct explanation of (A).
- (2) Both (A) and (R) are true but (R) is not the correct explanation of (A).
- (3) (A) is true but (R) is false.
- (4) (A) is false but (R) is true.

Options:

61547546033. 1

61547546034. 2

61547546035.3

61547546036. 4

Question Number: 134 Question Id: 61547511806 Question Type: MCQ Option Shuffling: No Display Question Number: Yes

Single Line Question Option : No Option Orientation : Vertical

Assertion (A): There is a general pattern of increase in biodiversity from equator to poles.

Reasons (R): Due to high level of energy received in tropics, higher is the net primary production, which in turn supports large number of individuals, leading to

high biodiversity.

In the light of above two statements, choose the correct option:

- (1) Both (A) and (R) are true and (R) is the correct explanation of (A).
- (2) Both (A) and (R) are true but (R) is not the correct explanation of (A).
- (3) (A) is true but (R) is false.
- (4) (A) is false but (R) is true.

Options:

61547546033. 1

61547546034. 2

61547546035.3

61547546036. 4

 $Question\ Number: 135\ Question\ Id: 61547511807\ Question\ Type: MCQ\ Option\ Shuffling: No\ Display\ Question\ Number: Yes\ Single\ Line\ Question\ Option: No\ Option\ Orientation: Vertical$

a distribution option (1) option official

Assertion (A): Isostacy is the corresponding state of balance between extensive blocks of earth's crust which rise to different levels and appear at the surface as mountains, plateaus, plains or ocean floor.

Reasons (R): There is a certain minimum depth below sea level where the pressure due to the weight of overlying material in each unit column is everywhere the same.

In the light of above two statements, choose the correct option:

- (1) Both (A) and (R) are true and (R) is the correct explanation of (A).
- (2) Both (A) and (R) are true but (R) is not the correct explanation of (A).
- (3) (A) is true but (R) is false.
- (4) (A) is false but (R) is true.

Options:

61547546037. 1

61547546038.2

61547546039. 3

61547546040.4

Question Number: 135 Question Id: 61547511807 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Single Line Question Option : No Option Orientation : Vertical

Assertion (A): Isostacy is the corresponding state of balance between extensive blocks of earth's crust which rise to different levels and appear at the surface as mountains, plateaus, plains or ocean floor.

Reasons (R): There is a certain minimum depth below sea level where the pressure due to the weight of overlying material in each unit column is everywhere the same.

In the light of above two statements, choose the correct option:

- (1) Both (A) and (R) are true and (R) is the correct explanation of (A).
- (2) Both (A) and (R) are true but (R) is not the correct explanation of (A).
- (3) (A) is true but (R) is false.
- (4) (A) is false but (R) is true.

Options:

61547546037. 1

61547546038.2

61547546039. 3

61547546040.4

Question Number: 136 Question Id: 61547511808 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Single Line Question Option : No Option Orientation : Vertical

Assertion (A): Most of the world's geothermal sites are located in the circum-pacific belt known as 'Rim of Fire'.

Reasons (R): Geothermal fields require combination of three geological conditions-a natural underground source of water; an impermeable rock that traps water and allows formation of steam; and a large mass of hot rock in the vicinity of water system.

In the light of above two statements, choose the correct option:

- (1) Both (A) and (R) are true and (R) is the correct explanation of (A).
- (2) Both (A) and (R) are true but (R) is not the correct explanation of (A).
- (3) (A) is true but (R) is false.
- (4) (A) is false but (R) is true.

Options:

61547546041.1

61547546042. 2

61547546043.3

61547546044. 4

Question Number: 136 Question Id: 61547511808 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Assertion (A): Most of the world's geothermal sites are located in the circum-pacific belt known as 'Rim of Fire'.

Reasons (R): Geothermal fields require combination of three geological conditions-a natural underground source of water; an impermeable rock that traps water and allows formation of steam; and a large mass of hot rock in the vicinity of water system.

In the light of above two statements, choose the correct option:

- (1) Both (A) and (R) are true and (R) is the correct explanation of (A).
- (2) Both (A) and (R) are true but (R) is not the correct explanation of (A).
- (3) (A) is true but (R) is false.
- (4) (A) is false but (R) is true.

Options:

61547546041.1

61547546042. 2

61547546043.3

61547546044. 4

Question Number: 137 Question Id: 61547511809 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Assertion (A): Himalyan states of India have greater hydropower potential.

Reasons (R): Hills provide an altitudinal gradient for the construction of dams.

In the light of above two statements, choose the correct option:

- (1) Both (A) and (R) are true and (R) is the correct explanation of (A).
- (2) Both (A) and (R) are true but (R) is not the correct explanation of (A).
- (3) (A) is true but (R) is false.
- (4) (A) is false but (R) is true.

Options:

61547546045.1

61547546046.2

61547546047.3

61547546048. 4

Question Number: 137 Question Id: 61547511809 Question Type: MCQ Option Shuffling: No Display Question Number: Yes

Single Line Question Option: No Option Orientation: Vertical

Correct Marks: 2 Wrong Marks: 0

Given below are two statements - one is labelled as Assertion (A) and the other is labelled as Reason (R).

Assertion (A): Himalyan states of India have greater hydropower potential.

Reasons (R): Hills provide an altitudinal gradient for the construction of dams.

In the light of above two statements, choose the correct option:

- (1) Both (A) and (R) are true and (R) is the correct explanation of (A).
- (2) Both (A) and (R) are true but (R) is not the correct explanation of (A).
- (3) (A) is true but (R) is false.
- (4) (A) is false but (R) is true.

Options:

61547546045. 1

61547546046, 2

61547546047.3

61547546048.4

Question Number: 138 Question Id: 61547511810 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Correct Marks: 2 Wrong Marks: 0

Given below are two statements - one is labelled as Assertion (A) and the other is labelled as Reason (R).

Assertion (A): In soil, Chromium (III) predominates Chromium (VI).

Reasons (R): Chromium (VI) is easily reduced to Chromium (III) by organic matter in

soil.

In the light of above two statements, choose the correct option:

- (1) Both (A) and (R) are true and (R) is the correct explanation of (A).
- (2) Both (A) and (R) are true but (R) is not the correct explanation of (A).
- (3) (A) is true but (R) is false.
- (4) (A) is false but (R) is true.

Options:

61547546049. 1

61547546050.2

61547546051.3

61547546052. 4

Question Number: 138 Question Id: 61547511810 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Correct Marks : 2 Wrong Marks : 0

Given below are two statements - one is labelled as Assertion (A) and the other is labelled as Reason (R).

Assertion (A): In soil, Chromium (III) predominates Chromium (VI).

Reasons (R): Chromium (VI) is easily reduced to Chromium (III) by organic matter in

soil.

In the light of above two statements, choose the correct option:

- (1) Both (A) and (R) are true and (R) is the correct explanation of (A).
- (2) Both (A) and (R) are true but (R) is not the correct explanation of (A).
- (3) (A) is true but (R) is false.
- (4) (A) is false but (R) is true.

Options:

61547546049. 1

61547546050.2

61547546051.3

61547546052.4

Question Number: 139 Question Id: 61547511811 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Correct Marks: 2 Wrong Marks: 0

Given below are two statements - one is labelled as Assertion (A) and the other is labelled as Reason (R).

Assertion (A): Aluminium Chloride is a good coagulant for treatment of raw water.

Reasons (R): Both the colloidal particles and Aluminium ions are positively charged.

In the light of above two statements, choose the correct option:

- (1) Both (A) and (R) are true and (R) is the correct explanation of (A).
- (2) Both (A) and (R) are true but (R) is not the correct explanation of (A).
- (3) (A) is true but (R) is false.
- (4) (A) is false but (R) is true.

Options:

61547546053.1

61547546054. 2

61547546055.3

61547546056.4

Question Number: 139 Question Id: 61547511811 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Correct Marks: 2 Wrong Marks: 0

Given below are two statements - one is labelled as Assertion (A) and the other is labelled as Reason (R).

Assertion (A): Aluminium Chloride is a good coagulant for treatment of raw water.

Reasons (R): Both the colloidal particles and Aluminium ions are positively charged.

In the light of above two statements, choose the correct option:

- (1) Both (A) and (R) are true and (R) is the correct explanation of (A).
- (2) Both (A) and (R) are true but (R) is not the correct explanation of (A).
- (3) (A) is true but (R) is false.
- (4) (A) is false but (R) is true.

Options:

61547546053.1

61547546054. 2

61547546055.3

61547546056, 4

Question Number: 140 Question Id: 61547511812 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Correct Marks: 2 Wrong Marks: 0

Given below are two statements - one is labelled as Assertion (A) and the other is labelled as Reason (R).

Assertion (A): Between organophosphorus pesticides malathion and parathion, the

former is more toxic than latter.

Reasons (R): Malathion is hydrolyzed by enzymes possessed by mammals to produce

relatively non-toxic products.

In the light of above two statements, choose the correct option:

(1) Both (A) and (R) are true and (R) is the correct explanation of (A).

- (2) Both (A) and (R) are true but (R) is not the correct explanation of (A).
- (3) (A) is true but (R) is false.
- (4) (A) is false but (R) is true.

Options:

61547546057.1

61547546058. 2

61547546059.3

61547546060. 4

Question Number: 140 Question Id: 61547511812 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Correct Marks: 2 Wrong Marks: 0

Given below are two statements - one is labelled as Assertion (A) and the other is labelled as Reason (R).

Assertion (A): Between organophosphorus pesticides malathion and parathion, the

former is more toxic than latter.

Reasons (R): Malathion is hydrolyzed by enzymes possessed by mammals to produce

relatively non-toxic products.

In the light of above two statements, choose the correct option:

- (1) Both (A) and (R) are true and (R) is the correct explanation of (A).
- (2) Both (A) and (R) are true but (R) is not the correct explanation of (A).
- (3) (A) is true but (R) is false.
- (4) (A) is false but (R) is true.

Options:

61547546057.1

61547546058. 2 61547546059.3 61547546060.4

> **Sub-Section Number:** 2

Sub-Section Id: 615475507

Question Shuffling Allowed: Yes

Question Id: 61547511813 Question Type: COMPREHENSION Sub Question Shuffling Allowed: Yes Group Comprehension Questions: No

Question Numbers : (141 to 145)

Question Label : Comprehension

Based on the passage given below, answer the questions 91 to 95:

Among the most interesting techniques for analyzing the earth's climatic history on a scale of hundred's to thousands of years are the study of ocean floor sediments and oxygen isotope analysis. Both methods are used to reconstruct past temperatures and each in part is related to the other. The seafloor sediments contain the remains of organisms that once lived near the surface. When such near surface organisms die, their shell slowly settle to the floor of the ocean, where they become part of the sedimentary record. One reason why seafloor sediments are useful recorders of worldwide climatic change is that the numbers and types of organisms living near the sea surface change as the climate changes.

We would expect that in any area of the ocean/atmosphere interface the average annual temperature of the surface water of the ocean would approximate that of the contiguous atmosphere. The temperature equilibrium established between surface sea water and the air above it should mean that changes in climate should be reflected in changes in organisms living near the surface of the deep sea.

The second technique, oxygen isotope analysis, is based on precise measurement of the ratio between two isotopes of oxygen: ¹⁶O, which is the most common, and the heavier ¹⁸O. Because the lighter isotope, ¹⁶O, evaporates more readily from the oceans, precipitation (and hence the glacial ice that it may form) is enriched in ¹⁶O. Of course, this leaves a greater concentration of the heavier isotope, ¹⁸O, in the ocean water.

Thus during periods when glaciers are extensive the concentration of ¹⁸O in seawater increases; conversely, during warmer interglacial periods when the amount of glacial ice drops dramatically, the amount of ¹⁸O relative to ¹⁶O in ocean water also drops. Ascertain microorganisms secrete their shells of calcium carbonate (CaCO₃), the prevailing ¹⁸O/¹⁶O ratio is reflected in the composition of these hard parts. Consequently, periods of glacial activity can be determined from variations in the oxygen isotope ratio found in shells of certain microorganisms buried in deep-sea sediments.

A second use of the ¹⁸O/¹⁶O ratio technique is its application to the study of cores taken from ice sheets, such as the one that covers Greenland.

Here another cause for variation in the oxygen isotope ratio is used-namely, the ratio influenced by temperature. More ¹⁸O is evaporated from the oceans when temperatures are high and less is evaporated when temperatures are low. Thus the heavy, isotope is more abundant in the precipitation of warm eras and less abundant during colder periods.

Sub questions

Question Number: 141 Question Id: 61547511814 Question Type: MCQ Option Shuffling: No Display Question Number: Yes

Single Line Question Option: No Option Orientation: Vertical

Correct Marks: 2 Wrong Marks: 0

Given below are two statements - one is labelled as Assertion (A) and the other is labelled as

Reason (R).

Seafloor sediments are useful recorders of worldwide climate change. Assertion (A):

Reasons (R): Organisms living near the surface of deep sea are sensitive to variations in

water temperature.

In the light of above two statements, choose the correct option:

(1) Both (A) and (R) are true and (R) is the correct explanation of (A).

(2)Both (A) and (R) are true but (R) is not the correct explanation of (A).

(3) (A) is true but (R) is false.

(A) is false but (R) is true. (4)

Options:

61547546061.1

61547546062. 2

61547546063.3

61547546064. 4

Question Number: 142 Question Id: 61547511815 Question Type: MCQ Option Shuffling: No Display Question Number: Yes

Single Line Question Option: No Option Orientation: Vertical

Consider the following statements:

- (a) Water molecules with ¹⁶O evaporate more readily from the oceans.
- (b) Water molecules with ¹⁸O are found in greater concentration in glacial ice than in oceans.

Which of the above statements are correct?

- (1) (a) only
- (2) (b) only
- (3) Both (a) and (b)
- (4) Neither (a) nor (b)

Options:

61547546065. 1

61547546066. 2

61547546067.3

61547546068.4

Question Number: 143 Question Id: 61547511816 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Single Line Question Option: No Option Orientation: vertica

Correct Marks: 2 Wrong Marks: 0

Consider the following statements regarding the ratio $\frac{^{18}O}{^{16}O}$:

- (a) It is greater than one in ocean waters.
- (b) It is less than one in glacial ice.

Which of the above statements are correct?

(a) only

(2) (b) only

(3) Both (a) and (b)

(4) Neither (a) nor (b)

Options:

61547546069.1

61547546070.2

61547546071.3

Question Number: 144 Question Id: 61547511817 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Correct Marks: 2 Wrong Marks: 0

Which of the following is expected during the warmer periods?

- (1) Higher $\frac{^{18}O}{^{16}O}$ in ocean waters as compared to that in cold periods
- (2) Higher $\frac{^{18}O}{^{16}O}$ in the calcium carbonate shells of organisms as compared to that in cold periods
- (3) Higher $\frac{^{18}O}{^{16}O}$ in the glacial ice as compared to that in cold periods
- (4) Lower $\frac{^{18}O}{^{16}O}$ in the glacial ice as compared to that in cold periods

Options:

61547546073.1

61547546074.2

61547546075.3

61547546076.4

Question Number: 145 Question Id: 61547511818 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Correct Marks: 2 Wrong Marks: 0

Consider the following statements:

- (a) The average annual temperature of the ocean surface water is close to the temperatures of contiguous atmosphere
- (b) Changes in climate can be estimated from $\frac{^{18}\text{O}}{^{16}\text{O}}$ ratio in the calcium carbonate shells of organisms
- (c) $\frac{^{18}O}{^{16}O}$ ratio in warmer periods is less in oceans as compared to that in cold periods.

Choose the correct option from those given below:

(1) (a) and (b) only

(2) (b) and (c) only

(3) (a) and (c) only

(4) (a), (b) and (c)

Options:

61547546077.1

61547546078. 2

 $\label{eq:Question Id: 61547511813} Question \ Type: COMPREHENSION \ Sub \ Question \ Shuffling \ Allowed: Yes \ Group \ Comprehension \ Questions: No$

Question Numbers : (141 to 145)

Question Label : Comprehension

Based on the passage given below, answer the questions 91 to 95:

Among the most interesting techniques for analyzing the earth's climatic history on a scale of hundred's to thousands of years are the study of ocean floor sediments and oxygen isotope analysis. Both methods are used to reconstruct past temperatures and each in part is related to the other. The seafloor sediments contain the remains of organisms that once lived near the surface. When such near surface organisms die, their shell slowly settle to the floor of the ocean, where they become part of the sedimentary record. One reason why seafloor sediments are useful recorders of worldwide climatic change is that the numbers and types of organisms living near the sea surface change as the climate changes.

We would expect that in any area of the ocean/atmosphere interface the average annual temperature of the surface water of the ocean would approximate that of the contiguous atmosphere. The temperature equilibrium established between surface sea water and the air above it should mean that changes in climate should be reflected in changes in organisms living near the surface of the deep sea.

The second technique, oxygen isotope analysis, is based on precise measurement of the ratio between two isotopes of oxygen: ¹⁶O, which is the most common, and the heavier ¹⁸O. Because the lighter isotope, ¹⁶O, evaporates more readily from the oceans, precipitation (and hence the glacial ice that it may form) is enriched in ¹⁶O. Of course, this leaves a greater concentration of the heavier isotope, ¹⁸O, in the ocean water.

Thus during periods when glaciers are extensive the concentration of ¹⁸O in seawater increases; conversely, during warmer interglacial periods when the amount of glacial ice drops dramatically, the amount of ¹⁸O relative to ¹⁶O in ocean water also drops. Ascertain microorganisms secrete their shells of calcium carbonate (CaCO₃), the prevailing ¹⁸O/¹⁶O ratio is reflected in the composition of these hard parts. Consequently, periods of glacial activity can be determined from variations in the oxygen isotope ratio found in shells of certain microorganisms buried in deep-sea sediments.

A second use of the ¹⁸O/¹⁶O ratio technique is its application to the study of cores taken from ice sheets, such as the one that covers Greenland.

Here another cause for variation in the oxygen isotope ratio is used-namely, the ratio influenced by temperature. More ¹⁸O is evaporated from the oceans when temperatures are high and less is evaporated when temperatures are low. Thus the heavy, isotope is more abundant in the precipitation of warm eras and less abundant during colder periods.

Sub questions

Question Number: 141 Question Id: 61547511814 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Correct Marks: 2 Wrong Marks: 0

Given below are two statements - one is labelled as Assertion (A) and the other is labelled as Reason (R).

Seafloor sediments are useful recorders of worldwide climate change. Assertion (A):

Reasons (R): Organisms living near the surface of deep sea are sensitive to variations in

water temperature.

In the light of above two statements, choose the correct option:

- (1) Both (A) and (R) are true and (R) is the correct explanation of (A).
- (2)Both (A) and (R) are true but (R) is not the correct explanation of (A).
- (3) (A) is true but (R) is false.
- (A) is false but (R) is true. (4)

Options:

61547546061.1

61547546062. 2

61547546063.3

61547546064. 4

Question Number: 142 Question Id: 61547511815 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Consider the following statements:

- (a) Water molecules with ¹⁶O evaporate more readily from the oceans.
- (b) Water molecules with ¹⁸O are found in greater concentration in glacial ice than in oceans.

Which of the above statements are correct?

- (1) (a) only
- (2) (b) only
- (3) Both (a) and (b)
- (4) Neither (a) nor (b)

Options:

61547546065. 1

61547546066. 2

61547546067.3

61547546068.4

Question Number: 143 Question Id: 61547511816 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Single Line Question Option: No Option Orientation: vertica

Correct Marks: 2 Wrong Marks: 0

Consider the following statements regarding the ratio $\frac{^{18}O}{^{16}O}$:

- (a) It is greater than one in ocean waters.
- (b) It is less than one in glacial ice.

Which of the above statements are correct?

(a) only

(2) (b) only

(3) Both (a) and (b)

(4) Neither (a) nor (b)

Options:

61547546069.1

61547546070.2

61547546071.3

Question Number: 144 Question Id: 61547511817 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Correct Marks: 2 Wrong Marks: 0

Which of the following is expected during the warmer periods?

- (1) Higher $\frac{^{18}O}{^{16}O}$ in ocean waters as compared to that in cold periods
- (2) Higher $\frac{^{18}O}{^{16}O}$ in the calcium carbonate shells of organisms as compared to that in cold periods
- (3) Higher $\frac{^{18}O}{^{16}O}$ in the glacial ice as compared to that in cold periods
- (4) Lower $\frac{^{18}O}{^{16}O}$ in the glacial ice as compared to that in cold periods

Options:

61547546073.1

61547546074.2

61547546075.3

61547546076.4

Question Number: 145 Question Id: 61547511818 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Correct Marks: 2 Wrong Marks: 0

Consider the following statements:

- (a) The average annual temperature of the ocean surface water is close to the temperatures of contiguous atmosphere
- (b) Changes in climate can be estimated from $\frac{^{18}\text{O}}{^{16}\text{O}}$ ratio in the calcium carbonate shells of organisms
- (c) $\frac{^{18}O}{^{16}O}$ ratio in warmer periods is less in oceans as compared to that in cold periods.

Choose the correct option from those given below:

(1) (a) and (b) only

(2) (b) and (c) only

(3) (a) and (c) only

(4) (a), (b) and (c)

Options:

61547546077.1

61547546078. 2

Sub-Section Number:

Sub-Section Id: 615475508

Question Shuffling Allowed: Yes

Question Id: 61547511819 Question Type: COMPREHENSION Sub Question Shuffling Allowed: Yes Group Comprehension

3

Questions: No

Question Numbers: (146 to 150)

Question Label : Comprehension

Based on the passage given below, answer the questions 96 to 100

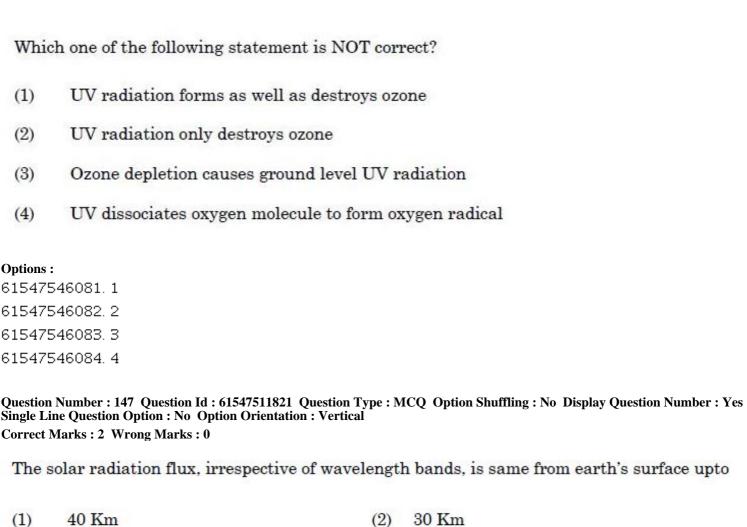
Ozone and ultraviolet radiation are inseparable. It takes UV photons to form ozone from oxygen and UV photons to release the chlorine from CFCs to destroy ozone. Ozone depletion causes ground level UV radiation-an environmental hazard. The wavelength of the electromagnetic radiation that is visible to the human eve and photosynthetically active for plants lies between 400-700 nm. Wavelengths below 400 nm in the ultraviolet are invisible to the unaided human eye. The UV region is conventionally subdivided into UV-A (320-400 nm), UV-B (280-320 nm) and UV-C (200-280 nm). Natural UV is supplied exclusively by the sun, which radiates energy as a black body with an effective surface temperature of 6000 K. Outside the earth's atmosphere, the total solar radiation flux density of 1367 Wm⁻² is the sum total of visible and IR (1254 Wm⁻²), UV-A (85.7 Wm⁻²), (UV-B (21.1 Wm⁻²) and UV-C (6.4 Wm⁻²). Close to the top of the earth's atmosphere, the spectrum is essentially extra-terrestrial. By an altitude of 40 Km, O3 absorption has already made a significant difference, reducing the flux most around 250 nm because that corresponds to the centre of the absorption band. At 20 km, above the surface, photon flux is almost same as the surface value, except for the residual peak at 200 nm. At this level, UV-C is effectively eliminated. Although UV-B is attenuated, the UV-C source flux increases towards the blue and Ozone absorption band weakens towards 300nm. Both these influences combine to give a significant UVB flux which is very sensitive to small shift in ozone absorption.

Based on the above mentioned passage answer the following questions

Sub questions

Question Number: 146 Question Id: 61547511820 Question Type: MCQ Option Shuffling: No Display Question Number: Yes

Single Line Question Option: No Option Orientation: Vertical



20 Km

10 Km (4)

Options:

(3)

61547546085.1

61547546086. 2

61547546087.3

61547546088. 4

Question Number: 148 Question Id: 61547511822 Question Type: MCQ Option Shuffling: No Display Question Number: Yes

Single Line Question Option: No Option Orientation: Vertical

Which	h of the following	UV rad	iation	combina	tions	occurs	most	on	earth's	surface	in
compa	arison to others?										
(1)	UVA and UVB										
(2)	UVB and UVC										
(3)	UVC and UVA										
(4)	UVA, UVB and U	VC									
Options :											
	46089. 1										
	46090. 2										
	46091. 3										
615475	46092. 4										
Single Lin	Number: 149 Question Id the Question Option: No Options: No Options: 2 Wrong Marks: 0	ption Orienta	3 Questi tion : Ve	ion Type : M rtical	ICQ Opt	tion Shuff	ling : No	Displ	ay Questio	n Number :	: Yes
The	lowest contribution	to solar	consta	nt at top	of th	e atmo	sphere	fron	n electr	omagnet	ic
radia	tion is in										
(1)	IR region			(2)	UVA	region					
(3)	UVB region			(4)	UVC	region					
Options:											
	46093. 1										
	46094. 2										
	46095. 3 46096. 4										
Single Lin	Number: 150 Question Id the Question Option: No Option: No Option: 2 Wrong Marks: 0	ption Orienta	4 Questi tion : Ve	ion Type : M rtical	ICQ Opt	tion Shuff	ling : No	Displ	ay Questio	n Number :	: Yes
Ozone'	's absorption of UV	radiation	in stra	atosphere	e is ma	ximum	at at				
(1)	200 nm			(2)	250 r	nm					
(3)	300 nm			(4)	280 r	nm					
Options:											

61547546097. 1

61547546098. 2

61547546099.3

61547546100.4

Question Id: 61547511819 Question Type: COMPREHENSION Sub Question Shuffling Allowed: Yes Group Comprehension

Questions: No

Question Numbers: (146 to 150)

Question Label : Comprehension

Based on the passage given below, answer the questions 96 to 100

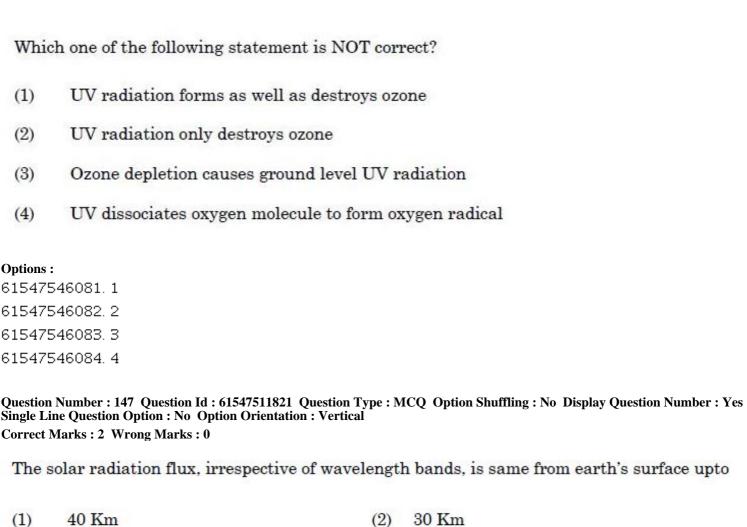
Ozone and ultraviolet radiation are inseparable. It takes UV photons to form ozone from oxygen and UV photons to release the chlorine from CFCs to destroy ozone. Ozone depletion causes ground level UV radiation-an environmental hazard. The wavelength of the electromagnetic radiation that is visible to the human eve and photosynthetically active for plants lies between 400-700 nm. Wavelengths below 400 nm in the ultraviolet are invisible to the unaided human eye. The UV region is conventionally subdivided into UV-A (320-400 nm), UV-B (280-320 nm) and UV-C (200-280 nm). Natural UV is supplied exclusively by the sun, which radiates energy as a black body with an effective surface temperature of 6000 K. Outside the earth's atmosphere, the total solar radiation flux density of 1367 Wm⁻² is the sum total of visible and IR (1254 Wm⁻²), UV-A (85.7 Wm⁻²), (UV-B (21.1 Wm⁻²) and UV-C (6.4 Wm⁻²). Close to the top of the earth's atmosphere, the spectrum is essentially extra-terrestrial. By an altitude of 40 Km, O3 absorption has already made a significant difference, reducing the flux most around 250 nm because that corresponds to the centre of the absorption band. At 20 km, above the surface, photon flux is almost same as the surface value, except for the residual peak at 200 nm. At this level, UV-C is effectively eliminated. Although UV-B is attenuated, the UV-C source flux increases towards the blue and Ozone absorption band weakens towards 300nm. Both these influences combine to give a significant UVB flux which is very sensitive to small shift in ozone absorption.

Based on the above mentioned passage answer the following questions

Sub questions

Question Number: 146 Question Id: 61547511820 Question Type: MCQ Option Shuffling: No Display Question Number: Yes

Single Line Question Option: No Option Orientation: Vertical



20 Km

10 Km (4)

Options:

(3)

61547546085.1

61547546086. 2

61547546087.3

61547546088. 4

Question Number: 148 Question Id: 61547511822 Question Type: MCQ Option Shuffling: No Display Question Number: Yes

Single Line Question Option: No Option Orientation: Vertical

Which	h of the following	UV rad	iation	combina	tions	occurs	most	on	earth's	surface	in
compa	arison to others?										
(1)	UVA and UVB										
(2)	UVB and UVC										
(3)	UVC and UVA										
(4)	UVA, UVB and U	VC									
Options :											
	46089. 1										
	46090. 2										
	46091. 3										
615475	46092. 4										
Single Lin	Number: 149 Question Id the Question Option: No Options: No Options: 2 Wrong Marks: 0	ption Orienta	3 Questi tion : Ve	ion Type : M rtical	ICQ Opt	tion Shuff	ling : No	Displ	ay Questio	n Number :	: Yes
The	lowest contribution	to solar	consta	nt at top	of th	e atmo	sphere	fron	n electr	omagnet	ic
radia	tion is in										
(1)	IR region			(2)	UVA	region					
(3)	UVB region			(4)	UVC	region					
Options:											
	46093. 1										
	46094. 2										
	46095. 3 46096. 4										
Single Lin	Number: 150 Question Id the Question Option: No Option: No Option: 2 Wrong Marks: 0	ption Orienta	4 Questi tion : Ve	ion Type : M rtical	ICQ Opt	tion Shuff	ling : No	Displ	ay Questio	n Number :	: Yes
Ozone'	's absorption of UV	radiation	in stra	atosphere	e is ma	ximum	at at				
(1)	200 nm			(2)	250 r	nm					
(3)	300 nm			(4)	280 r	nm					
Options:											

61547546097. 1

61547546098. 2

61547546099.3