National Testing Agency

89 Environmental Sciences 25th June 2019 Shift1 Set2 **Question Paper Name:**

Subject Name: 89 Environmental Sciences 2019-06-25 14:20:34 **Creation Date:**

Duration: 180 300 **Total Marks: Display Marks:** Yes **Share Answer Key With Delivery** Yes

Engine:

Actual Answer Key:

Yes

89 Environmental Sciences

Group Number:

646350284 Group Id:

Group Maximum Duration: 0 **Group Minimum Duration:** 180 Revisit allowed for view?: No Revisit allowed for edit?: No **Break time:** 0 **Group Marks:** 300

PART I General Aptitude

Section Id: 646350553

Section Number: 1 **Section type:** Online **Mandatory or Optional:** Mandatory **Number of Questions:** 42 **Number of Questions to be attempted:** 42

Section Marks: 100 **Display Number Panel:** Yes **Group All Questions:** No

Sub-Section Number:

Sub-Section Id: 6463501408

Question Shuffling Allowed: Yes

 $Question\ Number: 1\ Question\ Id: 64635028923\ Question\ Type: MCQ\ Option\ Shuffling: No\ Display\ Question\ Number: Yes\ Single\ Line\ Question\ Option: No\ Option\ Orientation: Vertical$

Correct Marks: 2 Wrong Marks: 0

As per the cognitive development theory of Jean Piaget, adolescent students are in which stage of development?

Concrete operational stage (1)Sensory motor stage

Operational stage (4) Formal operational stage (3)

Options:

6463	50113539. 1			
6463	50113540. 2			
6463	50113541. 3			
6463	50113542. 4			
Single Corre	Line Question Option : No Option Orient ct Marks : 2 Wrong Marks : 0	ntation : Vertical		ion Shuffling : No Display Question Number : Yes ार्थी विकास के किस चरण में होते हैं?
(1)	संवेदी प्रेरक चरण	(2	2)	मूर्त्त संक्रियात्मक चरण
(3)	संक्रियात्मक चरण	(4	()	औपचारिक संक्रियात्मक चरण
Option				
	350113539. 1 350113540. 2			
	350113540. 2			
	350113541. 3 350113542. 4			
Belo indi (a) (b) (c) (d) (e)	ow is given a list of teach vidualized approach? Demonstration method Modular approach based tea Programmed learning Personalized teaching Collaborative method ect your answer from the optice	aching	. 8	approaches. Which among them are
(1)	(a), (b) and (c)	(2)	h)	(a) and (d)
10000				(c) and (d)
(3)	(c), (d) and (e)	(4)	(a),	(d) and (e)
Option				
	350113543. 1 350113544. 2			
	350113544. 2			
	350113546. 4			
Questi		4 Question Type : MCQ (ntation : Vertical	Opti	ion Shuffling: No Display Question Number: Yes

नीचे शिक्षण विधियां और उपागम दिए गए हैं। उनमें से कौन-कौन सा व्यष्टिसापेक्ष उपागम है।

- (a) प्रदर्शन विधि
- (b) माड्युलर उपागम
- (c) अभिक्रमित/अधिगम
- (d) व्यष्टिसापेक्ष शिक्षण
- (e) सहयोगात्मक विधि

नीचे दिए गए विकल्पों में से सही उत्तर दीजिए

(1) (a), (b) और (c)

(2) (b), (c) और (d)

(3) (c), (d) और (e)

(4) (a), (d) और (e)

Options:

646350113543.1

646350113544. 2

646350113545. 3

646350113546. 4

Question Number: 3 Question Id: 64635028925 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

Which of the following statements is true in the case of a test prepared by you as a teacher?

- (1) If a test is reliable, it is objective
- (2) If a test is valid, it is reliable also
- (3) If a test is reliable, it is valid
- (4) If a test is valid and reliable, it is usable

Options:

646350113547.1

646350113548. 2

646350113549.3

646350113550.4

Question Number : 3 Question Id : 64635028925 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

एक अध्यापक के रूप में आपके द्वारा तैयार किए गए परीक्षण के मामले में निम्नलिखित में से कौन-सा कथन सही है?

- (1) यदि परीक्षण विश्वसनीय है तो वह वस्तुनिष्ठ होगा
- (2) यदि परीक्षण वैधता रखता है तो वह विश्वसनीय भी होगा
- (3) यदि परीक्षण विश्वसनीय है तो वह वैधता भी रखेगा
- (4) यदि परीक्षण वैधता रखता है, और विश्वसनीय है तो यह उपयोज्य होगा

Options:

646350113547.1

646350113548. 2

646350113549.3

646350113550.4

Question Number: 4 Question Id: 64635028926 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 best explains the concept of team teaching?

- (1) More than two teachers teach
- (2) More than two teachers plan and teach together the same class
- (3) More than two teachers plan and teach the same class as per their expertise.
- (4) A team of teachers who are ready and available to teach the students

Options:

646350113551.1

646350113552. 2

646350113553.3

646350113554. 4

Question Number : 4 Question Id : 64635028926 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Single Ente Question option (110 option offendation (

निम्नलिखित में से कौन-सा कथन-टीम शिक्षण की अवधारणा को सर्वोत्तम रूप से व्याख्यायित करता है?

- (1) दो से अधिक अध्यापक शिक्षण कार्य करते हैं
- (2) दो से अधिक अध्यापक एक ही कक्षा को एक साथ मिलकर पढ़ाने की योजना बनाते हैं और पढ़ाते हैं
- (3) दो से अधिक अध्यापक अपनी विशेषता के अनुसार एक ही कक्षा को पढ़ाने की योजना बनाते और पढ़ाते है
- (4) अध्यापकों की एक टीम जो विद्यार्थियों को पढ़ाने हेत् तैयार और उपलब्ध रहती है

Options:

646350113551.1

646350113552. 2

646350113553.3

646350113554. 4

Question Number: 5 Question Id: 64635028927 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 bases can be counted to judge the effectiveness of teaching?

- (a) Marks obtained by students in overall subjects
- (b) Level of realization of instructional objectives
- (c) Time taken by the students to learn.
- (d) Resources used by the teacher in teaching
- (e) Regularity of students in class.

Select your answer from the options given below:

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

(2) (a), (b) and (d)

(3) (c), (d) and (e)

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

Options:

646350113555.1

646350113556. 2

646350113557.3

646350113558. 4

Question Number: 5 Question Id: 64635028927 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

शिक्षा	ण की प्रभावशीलता का निर्णय करने मे	में निम्नलिखित में से किन	ı f	बेन्दुओं पर विचार किया जाता है।			
(a)	सभी विषयों में विद्यार्थियों का प्राप्तां	क					
(b)	शिक्षण उद्देश्यों की प्राप्ति का स्तर						
(c)	सीखने में विद्यार्थियों द्वारा लिया जानोवाला समय						
(d)	शिक्षण में अध्यापक द्वारा प्रयोग में		r				
16. 6	कक्षा में विधार्थियों की उपस्थिति व	2111927017240	975				
(e)	कदा। म ।वया।यथा का उपास्थात क	ा ।नथामतता					
नीचे	दिए गए विकल्पों में से सही उत्तर का	चयन कीजिए::					
(1)	(a), (b) और (c)	(2)	1	(a), (b) और (d)			
(3)	(c), (d) और (e)	(4)	ri.	(b), (c) और (d)			
Options	;:						
	50113555. 1						
	50113556. 2						
	50113557. 3 50113558. 4						
	n the researcher does not know is termed as	w the identity of th	e e	experimental and placebo groups, the			
(1)	Blind	(2) De	211	ble - blind			
(3)	Panel	(-)		ort			
Options							
_	50113559. 1						
64635	50113560. 2						
64635	50113561. 3						
64635	50113562. 4						
Single I Correct	Line Question Option: No Option Oriental Marks: 2 Wrong Marks: 0	ation : Vertical	20	on Shuffling: No Display Question Number: Yes			
एस उ	नञ्चन का, जिसम शायकता का प्राय	ागक आर प्लासबा समूह	51 .	की पहचान की जानकारी नहीं होती, कहा जाता है			
(1)	ब्लाइंड	(2)	-	डबल ब्लाइंड			
(3)	पैनल	(4)	7	कोहोर्ट			
Options	s: 50113559. 1						

646350113560. 2 646350113561. 3

64635	0113562. 4			
Single L	n Number: 7 Question Id: 64635028929 Que ine Question Option: No Option Orientation Marks: 2 Wrong Marks: 0	stion Type : MCQ Opt : Vertical	ion Shuffling: No Display Question Number:	Yes
Resea	arch that focuses on social inec	quality between	men and women is called	
(1)	Comparative research	(2)	Longitudinal research	
(3)	Action research	(4)	Feminist research	
Options 64635	: 0113563.1			
64635	0113564. 2			
64635	0113565. 3			
64635	0113566. 4			
Single L Correct	n Number : 7 Question Id : 64635028929 Que ine Question Option : No Option Orientation Marks : 2 Wrong Marks : 0 धि जिसमें पुरूष और महिला के बीच सार	: Vertical	ion Shuffling : No Display Question Number : ` ं जोर दिया जाता है. कहलाता है	Yes
(1)	तुलनात्मक शोध	(2)		
(3)	क्रियात्मक शोध	(4)	नारीवादी शोध	
Options 64635	: 0113563.1			
64635	0113564. 2			
64635	0113565. 3			
64635	0113566. 4			
Single Land	n Number: 8 Question Id: 64635028930 Que ine Question Option: No Option Orientation Marks: 2 Wrong Marks: 0 easiest attitudinal scale which	: Vertical	ion Shuffling: No Display Question Number:	Yes
(1)	Guttman Scale	(2)	Likert scale	
(3)	Thurstone scale	(4)	MLA scale	

Options:

646350113567.1

646350113568.2

646350113569.3

646350113570.4

 $Question\ Number: 8\ Question\ Id: 64635028930\ Question\ Type: MCQ\ Option\ Shuffling: No\ Display\ Question\ Number: Yes\ Single\ Line\ Question\ Option: No\ Option\ Orientation: Vertical$

सर्वाधि	क आसान अभिवृत्तिक स्केल जो एक र	प्रमाकलित कोटि	निर्घा	रण स्केल होता है, कहलाता है
(1)	गटमैन स्केल		(2)	लिकर्ट स्केल
(3)	थर्स्टोन स्केल		(4)	एम एल ए स्केल
646350 646350	0113567. 1 0113568. 2 0113569. 3			
Question Single Lin Correct M	ne Question Option: No Option Orientation Marks: 2 Wrong Marks: 0	n : Vertical	Q Op	tion Shuffling: No Display Question Number: Yes
Quan	titative research is also calle	ed the		
(1)	Ethnographic approach		(2)	Unstructured approach
(3)	Descriptive approach		(4)	Structured approach
646350 646350 646350 Question Single Lin Correct M	113571. 1 113572. 2 113573. 3 113574. 4 Number: 9 Question Id: 64635028931 Question Option: No Option Orientation Marks: 2 Wrong Marks: 0 表 別程 新 ———— भी कहा जात	n : Vertical	Q Op	tion Shuffling : No Display Question Number : Yes
(1)	नृजातीय उपागम		(2)	असंरचित उपागम
(3)	वर्णनात्मक उपागम		(4)	संरचित उपागम
646350 646350	0113571. 1 0113572. 2 0113573. 3 0113574. 4			
Question Single Lin Correct M	Number: 10 Question Id: 64635028932 Que Question Option: No Option Orientation Marks: 2 Wrong Marks: 0	n:Vertical ations may l		ption Shuffling: No Display Question Number: Yes nade that will be applicable to other
(1)	Cohort study	(2)	Co	se study
(3)	Panel study	(4)		ind study
Options:	113575. 1	(-/		
	113576. 2			

646350113577. 3 646350113578. 4

Question Number: 10 Question Id: 64635028932 Question Type: MCQ Option Shuffling: No Display Question Number: Yes

Single Line Question Option : No Option Orientation : Vertical

Correct Marks: 2 Wrong Marks: 0

जिस शोध विधि में सामान्यीकरण किया जाता है जो उसी प्रकार की अन्य परिस्थितियों पर लागू होता है। इसे क्या कहा जाता है?

(1) कोहोर्ट स्टडी

(2) केस **स्ट**डी

(3) पैनल स्टडी

(4) ब्लाइंड स्टडी

Options:

646350113575.1

646350113576.2

646350113577.3

646350113578. 4

Sub-Section Number:

2

Sub-Section Id:

6463501409

Question Shuffling Allowed:

Yes

Question Id: 64635028933 Question Type: COMPREHENSION Sub Question Shuffling Allowed: Yes Group Comprehension

Questions: No

Question Numbers: (11 to 15)

Question Label : Comprehension

Read the passage carefully and answer question

Intelligence is associated with academic achievement by most people. The various theories of intelligence created by psychologists hold that there are two kinds of academic intelligence-verbal and mathematical or logical. Intelligence is an inherited trait that impacts individual behaviour and performance according to most experts. But, many research studies have revealed that the environment greatly impacts the development of intelligence. Since, one property of intelligence is analytical and reasoning skills, people with high intelligence quotient will understand the problem at hand better than people with a low IQ.

Many organizations consider intelligence as an important criterion while recruiting. For instance in many management schools, a lot of weightage is given to high IQ while admitting students or recruiting faculty members. The qualities of intelligent people are high energy drive, achievement and competitiveness. Very intelligent employees learn job – related skills and other organisational practices quickly and organisations have to spend less time training them. People with high intelligence have good decision making ability due to their good analytical and reasoning skills, with a high achievement drive, they are mostly by very productive. As the saying goes, 'A wise enemy is better than a foolish 'friend;

Even with such a high IQ very intelligent people may not always be very happy. The high IQ makes them dysfunctional leading to anxiety and depression. Generally speaking, people with at high intelligence quotient are often dissatisfied people.

Single L	n Number: 11 Question Id: 64635028934 Question Typ.ine Question Option: No Option Orientation: Vertical Marks: 2 Wrong Marks: 0	oe : MCQ O _l	otion Shuffling: No Display Question Number: Yes
When	n a student stands first in the class, t	he gener	al credit is given to :
(1)	Contacts	(2)	Intelligence
(3)	Hard work	(4)	Attractive features
Options	: 0113579. 1		
	0113580. 2		
64635	0113581. 3		
64635	0113582. 4		
Single L Correct	n Number: 12 Question Id: 64635028935 Question Typine Question Option: No Option Orientation: Vertical Marks: 2 Wrong Marks: 0 se who understand a problem in a sho		
(1)	High IQ	(2)	Low IQ
(3)	Average IQ	(4)	Good IQ
64635 64635	: 0113583. 1 0113584. 2 0113585. 3 0113586. 4		
Question Single L Correct	n Number: 13 Question Id: 64635028936 Question Typine Question Option: No Option Orientation: Vertical Marks: 2 Wrong Marks: 0 n energy drive, achievements and com		
(1)	Admission	(2)	Recruitment
(3)	Promotion	(4)	Admission and recruitment
Options		(1)	
	0113587. 1		
	0113588. 2		
	0113589. 3		
64635	0113590. 4		
Single L	n Number: 14 Question Id: 64635028937 Question Typine Question Option: No Option Orientation: Vertical Marks: 2 Wrong Marks: 0	oe : MCQ O _I	otion Shuffling: No Display Question Number: Yes
Diss	atisfaction is often witnessed in peopl	e with	
(1)	Creative skills	(2)	High expectations
(3)	Good decision - making ability	(4)	High education qualifications

Options:

646350113591.1

646350113592.2

646350113593.3

646350113594. 4

Question Number: 15 Question Id: 64635028938 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Correct Marks: 2 Wrong Marks: 0

Another word for 'Weightage' is

Credit (1)

Mass (2)

(3)Weight (4) Freedom

Options:

646350113595.1

646350113596. 2

646350113597.3

646350113598.4

Question Id: 64635028933 Question Type: COMPREHENSION Sub Question Shuffling Allowed: Yes Group Comprehension

Questions: No

Question Numbers: (11 to 15)

Question Label : Comprehension

अधिकांश लोग बृद्धि को शैक्षणिक उपलब्धि से सम्बन्धित करते हैं। मनोवैज्ञानिकों द्वारा दिए गए बृद्धि के विभिन्न सिद्धांतों में माना गया है कि अकादमिक बुद्धि के दो प्रकार होते हैं – शाब्दिक और गणितीय अथवा तार्किक। अधिकांश विशेषज्ञों के अनुसार बुद्धि वंशानुगत विशेष गुण होती है जो व्यक्तिगत व्यवहार और कार्य निष्पादन को प्रभावित करती है। परन्तु अनेक शोध अध्ययनों से यह पता चला है कि वातावरण बृद्धि के विकास को अत्यधिक रूप से प्रभावित करता है। चूंकि बृद्धि की एक विशेषता विश्लेषणात्मक और तर्कपरक कौशल है, उच्च बुद्धि-लब्धि (आई क्यू) वाले लोग अल्प बुद्धि-लब्धि वाले लोगों की तुलना में समस्या को बेहतर ढंग से समझेंगे।

बहत से संगठन कर्मचारियों की भर्ती करते समय बृद्धि को एक महत्वपूर्ण मानदंड मानते हैं। उदाहरणार्थ, अनेक मैनेजमेण्ट स्कूलों में विद्यार्थियों के प्रवेश और शिक्षकों की भती में बृद्धि लब्धि (आई क्यू) पर काफी बल दिया जाता है। बृद्धिमान व्यक्तियों की विशेषता अति ऊर्जा आवेग, उपलब्धि और प्रतिस्पर्धात्मकता होती है। काफी बुद्धिमान कर्मचारी कार्य में संबंधित कौशल और अन्य संगठनात्मक पद्धतियों को शीघ्रता से सीखते हैं तथा संगठन को उन्हें प्रशिक्षित करने में अपेक्षाकृत कम समय लगता है। उच्च बुद्धिमत्ता वाले लोगों में अच्छी विश्लेषणात्मक और तार्किक कौशल होने के कारण उनमें निर्णय- लेने की अच्छी क्षमता होती है। उच्च उपलब्धि की ललक के साथ, ये लोग अधिकांशतः काफी सुजक होते हैं। जैसा कि कहावत है कि 'किसी मूर्ख मित्र की तुलना में बुद्धिमान शत्रु बेहतर है।'

ऐसी उच्च बृद्धि-लब्धि (आई क्यू) के बावजूद बहुत बृद्धिमान लोग हमेशा अति प्रसन्न नहीं हो सकते हैं। उच्च बृद्धि-लब्धि उन्हें निष्क्रिय बना देती है जिसकी परिणति उनकी चिंता और नैराश्य के रूप में होती है। आम तौर पर कहा जाता है कि उच्च बृद्धि-लब्धि वाले लोग प्रायः असंतृष्ट लोग होते हैं।

Sub questions

Single Li	Number: 11 Question Id: 64635028934 Quest ine Question Option: No Option Orientation: V Marks: 2 Wrong Marks: 0		tion Shuffling: No Display Question Numb	er : Yes
	विद्यार्थी कक्षा में प्रथम आता है तो इसका ह	श्रेय किसे दिया जात	π है?	
(1)	संपर्क में रहनेवाले व्यक्ति को	(2)	बुद्धि को	
(3)	किम परिश्रम को	(4)	शारीरिक सौष्ठव को	
Options : 646350	: 0113579.1			
646350	0113580. 2			
646350	0113581.3			
646350	0113582. 4			
Single Li	Number: 12 Question Id: 64635028935 Quest ine Question Option: No Option Orientation: V Marks: 2 Wrong Marks: 0		tion Shuffling: No Display Question Numb	er : Yes
जो ले	ोग कम समय में समस्या को समझ जाते हैं	वे ——— वाले	होते हैं	
(1)	उच्च बुद्धि-लिब्धि	(2)	निम्न बुद्धि-लब्धि	
(3)	औसत बुद्धि-लब्धि	(4)	उत्तम बुद्धि-लब्धि	
	0113583. 1			
	0113584. 2			
646350	0113585. 3			
646350	0113586. 4			
Single Li	Number: 13 Question Id: 64635028936 Quest ine Question Option: No Option Orientation: V Marks: 2 Wrong Marks: 0		tion Shuffling: No Display Question Numb	er : Yes
निम्नलि	खित में से किसके दौरान उच्च ऊर्जा, अन्तन	र्तेद, उपलब्धि और	प्रतिस्पर्धात्मकता को महत्व दिया जाता	है?
(1)	प्रवेश	(2)	भर्ती	
(3)	पदोन्नति	(4)	प्रवेश और भर्ती	
Options:				
	0113587. 1			
	0113588. 2			
	0113589. 3			
646351	0113590. 4			
Single Li	Number: 14 Question Id: 64635028937 Questine Question Option: No Option Orientation: V. Marks: 2 Wrong Marks: 0		tion Shuffling: No Display Question Numb	er : Yes
असंतो	ष प्रायः ——— वाले लोगों में देखा ज	ाता है		
(1)	सृजनात्मक कौशल	(2)	उच्च उम्मीद	
(3)	उत्तम निर्णय क्षमता	(4)	उच्च शैक्षणिक योग्यता	

Options:				
	113591.1			
	113592. 2			
	113593. 3			
646350	113594. 4			
Single Lin	Number: 15 Question Opt	ion : No Option Orientation : Vertica	ype:MCQ Op l	tion Shuffling : No Display Question Number : Yes
भाराक	' के लिए दूसर	। शब्द है		
(1)	क्रेडिट		(2)	द्रव्यमान
(3)	भार		(4)	स्वतंत्रता
Options: 646350	113595. 1			
646350	113596. 2			
646350	113597. 3			
646350	0113598. 4			
		Sub-Section Number: Sub-Section Id:	3 646350141	0
		Question Shuffling Allowed:	Yes	O .
Single Lin	Number : 16 Q ne Question Opt Marks : 2 Wron	ion : No Option Orientation : Vertica	ype : MCQ Op l	tion Shuffling : No Display Question Number : Yes
The co	ognitive do	main of communication i	nvolves m	atters related to
(1)	Emotions	3	(2)	Knowledge
(3)	Fantasy		(4)	Escapism
646350 646350	0113599. 1 0113600. 2 0113601. 3 0113602. 4			
Single Lin	Number : 16 Q ne Question Opt Marks : 2 Wron	ion : No Option Orientation : Vertica	ype : MCQ Op l	tion Shuffling : No Display Question Number : Yes
संप्रेषण	। के संज्ञानात्म	क क्षेत्र में निम्नलिखित में से किस	से संबंधित मा	मले शामिल हैं?
(1)	संवेग		(2)	ज्ञान
(3)	भ्रांति		(4)	पलायनवाद
Options: 646350	113599. 1			

64639	50113601. 3		
64635	50113602. 4		
Single 1	on Number: 17 Question Id: 64635028940 Quest Line Question Option: No Option Orientation: V t Marks: 2 Wrong Marks: 0		otion Shuffling: No Display Question Number: Yes
In a	class room, a student to be an ef	fective listene	er, has to take note of
(a)	The teacher appearance	(b)	The peer group
(c)	The academic content	(d)	Communication distractions
Cho	ose the correct answer from the c	ptions given	below:
(1)	(a), (b) and (c)	(2)	(b), (c) and (d)
(3)	(a), (d) and (c)	(4)	(c) and (d) only
Option 64635	s: 50113603. 1		
	50113604. 2		
64635	50113605. 3		
64635	50113606. 4		
Questic Single 1	on Number : 17 Question Id : 64635028940 Quest Line Question Option : No Option Orientation : V	tion Type : MCQ Op Vertical	otion Shuffling : No Display Question Number : Yes
	t Marks : 2 Wrong Marks : 0		
किसी	कक्षा में विद्यार्थीं को एक प्रभावी श्रोता होना	चाहिए, उसे —	—— ध्यान रखना चाहिए?
(a)	अध्यापक के शक्ल का		साथियों का
(c)	अकादमिक पाठ का	(d)	संप्रेषण विकर्षणों का
नीचे	दिए गए विकल्पों का प्रयोग करते हुए सही उ	तर का चयन कीजि	ए
कूट :			
(1)	(a), (b) और (c)	(2)	(b), (c) और (d)
(3)	(a), (d) और (c)	(4)	केवल (c) और (d)
	50113603. 1		
	50113604. 2		
	50113605. 3		
64635	50113606. 4		

Question Number: 18 Question Id: 64635028941 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Correct Marks: 2 Wrong Marks: 0

Sinc		with other people becomes difficult.	take	place	at a highly superficial level, making
(1)	Course corrections	3	(2)	Pre	edictions
(3)	Deeds		(4)	An	nouncements
Options	: 0113607.1				
	0113608. 2				
	0113609. 3				
	0113610. 4				
Single L Correct	ine Question Option: No Op Marks: 2 Wrong Marks: 0	ption Orientation : Vertica	ĺ		tion Shuffling : No Display Question Number : Yes
_	The second secon	ञन्यान्याक्रया आतं सतः	हा स्तर	पर हार	ती है, अच्छे/अच्छी ——— करना काफी कठिन
हो जात	ता है				
(1)	मार्ग-सुधार		(2)	पूर्णा	नुमान
(3)	कार्य		(4)	घोष	णाएं
Options 64635	: 0113607.1				
64635	0113608. 2				
64635	0113609. 3				
64635	0113610. 4				
Single L Correct In bo	ine Question Option: No Op Marks: 2 Wrong Marks: 0	ption Orientation : Vertica	l		tion Shuffling: No Display Question Number: Yes
(1)	Rationalisation		(2)	Gate	e keeping
(3)	Content correction		(4)		- way flow
64635 64635	: 0113611. 1 0113612. 2 0113613. 3 0113614. 4				
Single L	n Number : 19 Question Id : ine Question Option : No Op Marks : 2 Wrong Marks : 0	ption Orientation : Vertica	pe : M0 l	CQ Op	tion Shuffling: No Display Question Number: Yes
आम	सम्प्रेषण और कक्षा में होने	वाले सम्प्रेषण में सूचना	एवं विष	षय वस्	तु के प्रक्रमण प्रक्रिया को ———— कहा जाता है
(1)	औचित्य स्थापन			(2)	गेटकीपिंग
(3)	विषयसामग्री सुधार			(4)	वन-वे फ्लो
Options	:				

646350113611. 1 646350113612. 2

646350113613.3

646350113614. 4

Question Number : 20 Question Id : 64635028943 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks: 2 Wrong Marks: 0

Assertion (A): No enculturisation takes place with resistance

Reason (R) : People have their own values and self – interest that filter communicated

messages

Choose the correct answer from the options given below:

(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:

646350113615.1

646350113616. 2

646350113617.3

646350113618. 4

Question Number: 20 Question Id: 64635028943 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Correct Marks: 2 Wrong Marks: 0

अभिकथन (A) : प्रतिरोध के साथ काई संस्कृतीकरण घटित नहीं होता है।

तर्क (R): लोगों के अपने मूल्य और स्व-हित होते हैं जो संप्रेषित संवाद को परिशोधित करते हैं।

नीचे दिए गए विकल्पों में से सही उत्तर का चयन कीजिए

- (A) और (R) दोनों सही हैं, तथा (R), (A) की सही व्याख्या है
- (2) (A) और (R) दोनों सही हैं, परन्तु (R), (A) की सही व्याख्या नहीं है
- (3) (A) सही है, परन्त (R) गलत है
- (4) (A) गलत है, परन्तु (R) सही है

Options:

646350113615.1

646350113616. 2

646350113617. 3

646350113618. 4

Question Number : 21 Question Id : 64635028944 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

If in	a certain co	ode, BAT = 23 and CAT	$\Gamma = 24$, the	en	how you w	rill code B	ALL?	
(1)	27		(5	2)	28			
(3)	32		(4	1)	39			
Options 646350	: 0113619.1							
646350	0113620.2							
646350	0113621.3							
646350	0113622. 4							
Single Li		nuestion Id: 64635028944 Question: No Option Orientation: Ve g Marks: 0) O _l	ption Shuffling	: No Display Q	Question Number	: Yes
यदि वि	ह्सी कूट में BA	T=23 और $CAT=24$ है,	तो आप BA	LI	🔾 के लिए निम्	नलिखित में से	कौन-सा कूट	लिखेंगे?
(1)	27		(2)	2	28			
(3)	32		(4)	8	39			
Options	: 0113619.1							
	0113620.2							
	0113621.3							
	0113622. 4							
Single Li	ine Question Opt Marks : 2 Wron	The second second second	rtical		720 720	-		
		o numbers a and b is	twice the s	sun	n of the nu	mbers. Wh	at is the su	m of
the re	ciprocals of	a and b ?						
(1)	1/8		(2) 1	/2				
(3)	2		(4) 4	=				
Options 646350	: 0113623.1							
646350	0113624. 2							
646350	0113625.3							
646350	0113626. 4							
Single Li		uestion Id: 64635028945 Question: No Option Orientation: Ve g Marks: 0		O _I	ption Shuffling	: No Display Q	uestion Number	: Yes
दो अं	iकों a और b	का गुणनफल इन संख्याओं के	योग का दोगुन	त है	, तो a और	b के व्युत्क्रम	का योग कितन	ा होगा?
(1)	1/8		(2)	1	1/2			
(3)	2		(4)	i.	4			
Options	:							

646350	0113623. 1		
646350	0113624. 2		
646350	0113625. 3		
646350	0113626. 4		
Single Li	Number: 23 Question Id: 64635028946 Question Typne Question Option: No Option Orientation: Vertical Marks: 2 Wrong Marks: 0	pe : MC	Q Option Shuffling: No Display Question Number: Yes
	lre B has a mean age of 28. What is th		ge of 31. A diffferent group of 60 employees an age of two employees of the two groups
(1)	29.8	(2)	29.5
(3)	29.2	(4)	29
	0113627. 1		
	0113628. 2		
	0113629. 3		
646350	0113630. 4		
Single Li Correct I	ne Question Option : No Option Orientation : Vertical Marks : 2 Wrong Marks : 0		Q Option Shuffling: No Display Question Number: Yes
संवर्ग 🚣	l के 40 कर्मचारियों के एक समूह की औसत आयु	31 av	है। संवर्ग B के 60 कर्मचारियों के एक अलग समूह की
औसत	आयु 28 वर्ष है। इन दोनों समूहों के कर्मचारियों की प	रक साध	मिलाकर औसत आयु कितनी है?
(1)	29.8 বর্ष	(2)	29.5 বর্ष
(3)	29.2 वर्ष	(4)	29 वर्ष
Options:			
	0113627. 1		
)113628. 2)113629. 3		
	0113630. 4		
0.10000	7113030. 1		
Single Li	Number: 24 Question Id: 64635028947 Question Typne Question Option: No Option Orientation: Vertical Marks: 2 Wrong Marks: 0	pe : MC	Q Option Shuffling: No Display Question Number: Yes
	eroplane flies along the four sides of a m/hr. Find the average speed of the plar		re field at the speed of 400, 600, 800 and und the field.
(1)	324 km/hr	(2)	360 km/hr
(3)	384 km/hr	(4)	396 km/hr
Options :			
	0113631. 1		
	0113632. 2		
	0113633. 3		
646350	0113634. 4		

Question Number : 24 Question Id : 64635028947 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical Correct Marks : 2 Wrong Marks : 0 एक विमान एक वर्गाकार मैदान के चारों किनारों पर 400, 600, 800 और 200 कि.मी./घं. की गति से उड़ता है। मैदान के चारों तरफ विमान की औसत गति बताइए

(1) 324 कि.मी./घं.

(2) 360 कि.मी./घं.

(3) 384 कि.मी./घं.

(4) 396 कि.मी./घं.

Options:

646350113631.1

646350113632.2

646350113633.3

646350113634. 4

Question Number: 25 Question Id: 64635028948 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 retailer marks all his goods at 40% above the cost price and thinking that he will still make 20% profit, offers a discount of 20% on the marked price. What is his actual profit percentage on the sales?

(1) 20%

(2) 18%

(3) 16%

(4) 12%

Options:

646350113635.1

646350113636. 2

646350113637.3

646350113638. 4

 $Question\ Number: 25\ Question\ Id: 64635028948\ Question\ Type: MCQ\ Option\ Shuffling: No\ Display\ Question\ Number: Yes\ Single\ Line\ Question\ Option: No\ Option\ Orientation: Vertical$

Correct Marks: 2 Wrong Marks: 0

एक खुदरा विक्रेता अपनी सभी वस्तुओं पर लागत मूल्य से 40% अधिक मूल्य अंकित करता है और इस प्रकार 20% लाभ की उम्मीद रखता है। इसके पश्चात् वह अंकित मूल्य पर 20% की छूट देता है। बिक्री पर उसे वास्तविक कितना प्रतिशत लाभ होगा?

(1) 20%

(2) 18%

(3) 16%

(4) 12%

Options:

646350113635.1

646350113636. 2

646350113637.3

646350113638.4

Question Number : 26 Question Id : 64635028949 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

All gentlemen are polite

No criminals are polite

No criminals are gentlemen.

Identify the major term in above syllogism.

- Predicate in the premises
- (2) Subject in the premises
- (3) Subject of the first premise and predicate of the conclusion
- (4) Subject of the second premise and subject of the conclusion

Options:

646350113639.1

646350113640.2

646350113641.3

646350113642.4

Question Number: 26 Question Id: 64635028949 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Correct Marks: 2 Wrong Marks: 0

सभी भद्र व्यक्ति विनम्र हैं। कोई अपराधी विनम्र नहीं है। कोई अपराधी भद्र व्यक्ति नहीं है। उपर्युक्त न्याय वाक्य में प्रमुख पद की पहचान कीजिये

- (1) आधारवाक्यों में विधेय
- (2) आधारवाक्यों में कर्ता
- (3) प्रथम आधारवाक्य का कर्ता और निष्कर्ष का विधेय
- (4) दूसरे आधारवाक्य का कर्ता और निष्कर्ष का कर्त्ता

Options:

646350113639.1

646350113640.2

646350113641.3

646350113642.4

Question Number: 27 Question Id: 64635028950 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 argument under which instantial propositions are inferrable from Universal Proposition.

Deductive argument

(2) Inductive argument

(3) Reductive argument

(4) Analogical argument

Options:

646350113643.1

646350	0113645. 3		
646350	0113646. 4		
Single Li	Number: 27 Question Id: 64635028950 Question Tyjine Question Option: No Option Orientation: Vertical Marks: 2 Wrong Marks: 0	pe : MC	Q Option Shuffling: No Display Question Number: Yes
उस तर्व	हे की पहचान कीजिये जिसके अन्तर्गत सार्वभौमिक त	र्कवाक्य	से दृष्टांतपरक आधारवाक्य का अनुमान लगाया जा सकता
है			
(1)	निगमनात्मक तर्क	(2)	आगमनात्मक तर्क
(3)	लघुकारक तर्क	(4)	सादृश्यमूलक तर्क
Options	:		
646350	0113643. 1		
646350	0113644. 2		
	0113645. 3		
646350	0113646. 4		
Single Li	n Number: 28 Question Id: 64635028951 Question Typine Question Option: No Option Orientation: Vertical Marks: 2 Wrong Marks: 0	pe : MC	Q Option Shuffling: No Display Question Number: Yes
Bang	alore is bigger than Jhansi, Satpura is	s bigg	ger than Chittor, Rajgarh is not as big as
Jhans	si but is bigger than Satpura. Which is t	he sn	nallest?
(1)	Banaglore	(2)	Jhansi
(3)	Satpura	(4)	Chittor
Options			
	0113647. 1		
	0113648. 2		
	0113649. 3		
646350	0113650. 4		
Single Li	n Number: 28 Question Id: 64635028951 Question Typine Question Option: No Option Orientation: Vertical Marks: 2 Wrong Marks: 0	pe : MC	Q Option Shuffling: No Display Question Number: Yes
बंगलौ	र झांसी से बड़ा शहर है, सतपुड़ा चितौड़ से बड़ा शह	र है। रा	जगढ़ झांसी के समान बड़ा नहीं है, लेकिन वह सतपुड़ा से
बड़ा है	। सबसे छोटा कौन है?		
(1)	बंगलौर	(2)	झांसी
(3)	सतपुड़ा	(4)	चित्तौड़
Options			
	0113647. 1		
	0113648. 2		
	0113649. 3		
646350	0113650. 4		

Question Number: 29 Question Id: 64635028952 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 perception where we do not have the knowledge of an object characterized by any predicate but an apprehension of some unrelated elements is called as? (1)Determinate perception (2)Indeterminate perception Implication Verbal testimony (3)(4)**Options:** 646350113651.1 646350113652. 2 646350113653.3 646350113654. 4 Question Number: 29 Question Id: 64635028952 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical Correct Marks: 2 Wrong Marks: 0 वह प्रत्यक्ष जिसके द्वारा हमें किसी वस्त का ज्ञान किसी विधेय की विशेषता द्वारा नहीं होता बल्कि कतिपय असंबंधित अवयवों के बोध से होता है, कहलाती है नियत प्रत्यक्ष (2) अनियत प्रत्यक्ष (1)वाचिक प्रत्यक्ष (3)**Options:** 646350113651.1

646350113652. 2

646350113653.3

646350113654. 4

Question Number: 30 Question Id: 64635028953 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 argument provided below:

"Sound is impermanent because it is audible"

Identify the fallacy involved in the above argument on the basis of Indian Logic from the options given below:

Fallacy of Trivial reason (1)

(2)Fallacy of irrelevant reason

Fallacy of Wrong assertion (3)

Fallacy of contradictory reason (4)

Options:

646350113655.1

646350113656. 2

646350113657.3

646350113658. 4

Question Number: 30 Question Id: 64635028953 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

निम्नलिखित तर्क पर विचार कीजिये 'ध्विन अस्थायी है क्योंकि यह श्रव्य है।'

नीचे दिये गये विकल्प से भारतीय तर्कशास्त्र के आधार पर उपर्युक्त तर्क में हेत्वाभास की पहचान कीजिये

तुच्छ तर्क का हेत्वाभास

(2) असंगत तर्क का हेत्वाभास

(3) गलत अभिकथन का हेत्वाभास

(4) विराधाभासी तर्क का हेत्वाभास

Options:

646350113655. 1

646350113656.2

646350113657.3

646350113658. 4

Sub-Section Number:

Sub-Section Id: 6463501411

Question Shuffling Allowed:

Question Id: 64635028954 Question Type: COMPREHENSION Sub Question Shuffling Allowed: Yes Group Comprehension Questions: No

Ouestion Numbers : (31 to 35)

Question Label : Comprehension

Consider the following table that shows the total number of students and percentage of females and males in five different departments.

Answer the questions based on the data contained in the table.

Department	Percentage of Females	Percentage of males	Total No. of students
Physics	45	55	450
Chemistry	35	65	550
English	55	45	300
Hindi	60	40	250
Mathematics	40	60	500

Sub questions

Question Number: 31 Question Id: 64635028955 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 number of females in English and Hindi departments together?

(1) 315

(2) 325

(3) 335

(4) 345

Options:

646350113659. 1

646350113660.2

0 1000	0115002. 1			
Single I	n Number: 32 Question Id: 6 Line Question Option: No Opt Marks: 2 Wrong Marks: 0		CQ O _l	Option Shuffling: No Display Question Number: Yes
What	is the respective rati	o of the number of ma	ale st	tudents in English Department to the
	Date of the control o	Mathematics departm		a paramenta de centra como aportamente 🗕 carron mais de porte especial de la como especial de la como Autor Successivo. As
(1)	9:12	(2)	9:5	20
(3)	3:5	(4)	45 :	: 60
Options	; :			
64635	0113663. 1			
64635	0113664. 2			
64635	0113665. 3			
64635	0113666. 4			
Single I	n Number: 33 Question Id: 6 Line Question Option: No Opt Marks: 2 Wrong Marks: 0	4635028957 Question Type : M ion Orientation : Vertical	CQ O _l	Option Shuffling: No Display Question Number: Yes
Whi	ch of the department	ts has maximum num	ıber	of female students?
(1)	Physics		(2)	Chemistry
(3)	English		(4)	Mathematics
Options	s :			
64635	0113667. 1			
64635	0113668. 2			
64635	0113669. 3			
64635	0113670. 4			
Single I	n Number: 34 Question Id: 6 Line Question Option: No Opt Marks: 2 Wrong Marks: 0	4635028958 Question Type : M ion Orientation : Vertical	CQ O _l	Option Shuffling: No Display Question Number: Yes
		lanta in the Chemistr	u do	epartment forms approximately what
		of students in the mat	74	
(1)	90%	(2)	95%	%
(3)	105%	(4)	110	0%
Options				
04035	0113671. 1			

 $Question\ Number: 35\ Question\ Id: 64635028959\ Question\ Type: MCQ\ Option\ Shuffling: No\ Display\ Question\ Number: Yes\ Single\ Line\ Question\ Option: No\ Option\ Orientation: Vertical$

Correct Marks: 2 Wrong Marks: 0

646350113672. 2 646350113673. 3 646350113674. 4 Which of the department has minimum number of male students?

(1) Physics

(2) English

(3) Hindi

(4) Mathematics

Options:

646350113675.1

646350113676. 2

646350113677.3

646350113678. 4

Question Id: 64635028954 Question Type: COMPREHENSION Sub Question Shuffling Allowed: Yes Group Comprehension

Questions: No

Question Numbers : (31 to 35)

Question Label: Comprehension

निम्नलिखित सारणी पर विचार कीजिये। इसमें पांच विभिन्न विभागों में विद्यार्थियों की कुल संख्या तथा उनमें छात्रों एवं छात्राओं का प्रतिशत दर्शाया गया है। सारणी में दिये गये आंकड़ों के आधार पर प्रश्नों के उत्तर दीजिये ।

विभाग	छात्राओं का	छात्रों का	विद्यार्थियों की
	प्रतिशत	प्रतिशत	कुल संख्या
भौतिक विज्ञान	45	55	450
रसायन शास्त्रा	35	65	550
अंग्रेज़ी	55	45	300
हिन्दी	60	40	250
गणित	40	60	500

Sub questions

Question Number: 31 Question Id: 64635028955 Question Type: MCQ Option Shuffling: No Display Question Number: Yes

Single Line Question Option: No Option Orientation: Vertical

Correct Marks: 2 Wrong Marks: 0

अंग्रेज़ी तथा हिन्दी विभागों में कुल मिलाकर छात्राओं की कुल संख्या क्या है?

(1) 315

(2) 325

(3) 335

(4) 345

Options:

646350113659.1

646350113660.2

646350113661.3

646350113662. 4

Question Number: 32 Question Id: 64635028956 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

अंग्रेज़ी	विभाग में छात्रों की संख्या तथा गणित विभाग में छा	त्रों की	संख्या का अनुपात क्या है?
(1)	9:12	(2)	9:20
(3)	3:5	(4)	45:60
Options: 6463501	113663. 1		
6463501	113664. 2		
6463501	113665. 3		
6463501	113666. 4		
Single Line Correct M	Number: 33 Question Id: 64635028957 Question Type: Ne Question Option: No Option Orientation: Vertical arks: 2 Wrong Marks: 0	MCQ O	ption Shuffling: No Display Question Number: Yes
किस वि	भाग में छात्राओं की अधिकतम संख्या है?		
(1)	भौतिक विज्ञान	(2)	रसायन शास्त्र
(3)	अंग्रेज़ी	(4)	गणित
Options:			
6463501	113667. 1		
6463501	113668. 2		
6463501	113669. 3		
6463501	113670. 4		
Single Line	Number: 34 Question Id: 64635028958 Question Type: Me Question Option: No Option Orientation: Vertical	MCQ O	ption Shuffling: No Display Question Number: Yes
Correct M	arks: 2 Wrong Marks: 0		
रसायन श	गास्त्र विभाग में विद्यार्थियों की कुल संख्या गणित विभाग	में विद्य	ार्थियों की कुल संख्या का लगभग कितना प्रतिशत है
(1)	90%	2) 9	5%
(3)	105%	4) 1	10%
Options: 6463501	L13671. 1		
6463501	113672. 2		
6463501	113673. 3		
6463501	113674. 4		
Single Line	Number: 35 Question Id: 64635028959 Question Type: New Question Option: No Option Orientation: Vertical Carks: 2 Wrong Marks: 0	MCQ O	ption Shuffling: No Display Question Number: Yes
100	भाग में छात्रों की न्यूनतम संख्या है?		
(1)	भौतिक विज्ञान	(2)	अंग्रेज़ी
(3)	हिन्दी	(4)	गणित
Options:			

64635	0113675. 1		
64635	0113676. 2		
64635	0113677. 3		
64635	0113678. 4		
	Sub-Section Number:	5	
	Sub-Section Id: Question Shuffling Allowed:	646350141 Yes	2
Single L	n Number: 36 Question Id: 64635028960 Questione Question Option: No Option Orientation: Vo Marks: 2 Wrong Marks: 0	on Type : MCQ Op ertical	tion Shuffling: No Display Question Number: Yes
The	main two components of CPU ar	e ———	 .
(1)	Control unit and ALU	(2)	ALU and BUS
(3)	Control unit and registers	(4)	Registers and main memory
Options	: 0113679. 1		
	0113679. 1		
	0113681. 3		
	0113682. 4		
Single L	n Number: 36 Question Id: 64635028960 Questione Question Option: No Option Orientation: Vo Marks: 2 Wrong Marks: 0		tion Shuffling: No Display Question Number: Yes
	यू के दो मुख्य अवयव हैं		
(1)	कन्ट्रोल यूनिट और ए एल यू	(2)	ए एल यू और बस
(3)	कन्ट्रोल यूनिट और रजिस्टर	(4)	रजिस्टर और मेन मेमोरी
Options	: 0113679. 1		
	011367 5. 1		
	0113681. 3		
	0113682. 4		
Single L	n Number: 37 Question Id: 64635028961 Questione Question Option: No Option Orientation: Ve Marks: 2 Wrong Marks: 0	on Type : MCQ Op ertical	tion Shuffling: No Display Question Number: Yes
	h of the following is used to creat	e web pages?	
(1)	HTTP	(2)	URL
(3)	FTP	(4)	HTML
Options 646350	: 0113683.1		

Single Li	Number: 37 Question Id: 640 ne Question Option: No Option Marks: 2 Wrong Marks: 0	635028961 Question Type on Orientation : Vertical	: MCQ Op	tion Shuffling : No Display (Question Number : Yes
100	ज के निर्माण हेतु निम्नलिखि	त में से किसा उपयोग ि	केया जाता	है?	
(1)	एच टी टी पी		(2)	यू आर एल	
(3)	एफ टी पी		(4)	एच टी एम एल	
Options:	0113683. 1				
)113684. 2				
)113685. 3				
	113686. 4				
Single Lin Correct M	Number: 38 Question Id: 640 ne Question Option: No Option Marks: 2 Wrong Marks: 0 h of the following is	on Orientation : Vertical		tion Shuffling : No Display (Question Number : Yes
(1)	Flash		(2)	Fire fox	
(3)	Internet explorer		(4)	Google	
Options :					
646350	113687. 1				
646350	113688. 2				
646350	113689. 3				
646350)113690. 4				
Single Li	Number: 38 Question Id: 640 ne Question Option: No Option		: MCQ Op	tion Shuffling : No Display (Question Number : Yes
1.00	Marks: 2 Wrong Marks: 0	b .			
निम्नलि	खित में से कौन सर्च इंजन	₹?			
(1)	फ्लैश		(2)	फायर फॉक्स	
(3)	इन्टरनेट एक्सप्लोरर		(4)	गूगल	
Options : 646350	0113687. 1				
)113688. 2				
	0113689. 3				
	113690. 4				

 $Question\ Number: 39\ Question\ Id: 64635028963\ Question\ Type: MCQ\ Option\ Shuffling: No\ Display\ Question\ Number: Yes\ Single\ Line\ Question\ Option: No\ Option\ Orientation: Vertical$

646350113685. 3 646350113686. 4

	r Hotographic Experts Gro	oup (JPEG) is used	l to compress ———.
(1)	Music	(2)	Video
(3)	Image	(4)	Frame
Options 64635	: 0113691.1		
64635	0113692. 2		
64635	0113693. 3		
64635	0113694. 4		
Single L	n Number : 39 Question Id : 6463502896 ine Question Option : No Option Orient Marks : 2 Wrong Marks : 0		Option Shuffling: No Display Question Number: Yes
ज्वाइंत	ट फोटोग्राफिक एक्सपर्ट्स ग्रुप (जे पी	ई जी) का उपयोग किसे	कम्प्रेस करने के लिये किया जाता है?
(1)	म्यूजिक	(2)	वीडियो
(3)	इमेज	(4)	फ्रेम
Options 64635	: 0113691.1		
64635	0113692. 2		
64635	0113693. 3		
64635	0113694. 4		
Correct The uneeds	s of society is known as ———	y (IT) to improve tl ——.	ne ability of Government to address the
(1)	E – Business	2.7	- Administration
(3)	E – Governance	(4) E	- Marketing
	: 0113695.1		
_			
64635	0113696. 2		
64635 64635	0113696. 2 0113697. 3		
64635 64635 64635			
64635 64635 64635 64635 Question Single L	0113697. 3 0113698. 4 n Number : 40 Question Id : 6463502896 ine Question Option : No Option Orient	4 Question Type : MCQ (ation : Vertical	Option Shuffling : No Display Question Number : Yes
64635 64635 64635 64635 Question Single L	0113697. 3 0113698. 4 n Number: 40 Question Id: 6463502896 ine Question Option: No Option Orient Marks: 2 Wrong Marks: 0	ation : Vertical	
64635 64635 64635 64635 Question Single L Correct	0113697. 3 0113698. 4 n Number: 40 Question Id: 6463502896 ine Question Option: No Option Orient Marks: 2 Wrong Marks: 0	ation : Vertical	Option Shuffling : No Display Question Number : Yes ताएं पूरी करने हेतु सरकार की क्षमता में सुधार करने वे
64635 64635 64635 64635 Question Single L Correct	0113697. 3 0113698. 4 n Number : 40 Question Id : 6463502896 tine Question Option : No Option Orient Marks : 2 Wrong Marks : 0 प्रौद्योगिकी (आई टी) का वह उपयोग	ation : Vertical जिसे समाज की आवश्यक	
64635 64635 Question Single L Correct सूचना लिये वि	0113697. 3 0113698. 4 n Number : 40 Question Id : 6463502896 ine Question Option : No Option Orient Marks : 2 Wrong Marks : 0 प्रौद्योगिकी (आई टी) का वह उपयोग ि केया जाता है, कहलाता है	ation : Vertical जिसे समाज की आवश्यक (2) ई	ताएं पूरी करने हेतु सरकार की क्षमता में सुधार करने वे

13696. 2			
13697. 3			
13698. 4			
Number: 41 Question Id: 64635028965 e Question Option: No Option Orienta arks: 2 Wrong Marks: 0	Question Type : MCQ Option : Vertical	ption Shuffling: No Display Question Number:	Yes
of the following pollutants	is included in the	e Air Quality Index in India?	
Carbon Dioxide	(2)	Chlorofluoro carbons	
Sulphur dioxide	(4)	Methane	
113699. 1 113700. 2 113701. 3 113702. 4 Number : 41 Question Id : 64635028965 e Question Option : No Option Orienta arks : 2 Wrong Marks : 0 खित में से किस प्रदूषक को भारत मे	tion : Vertical i वायु गुणवत्ता सूचकांक	में शामिल किया गया है?	Yes
कार्बन डॉयक्साइड	(2)	क्लोरोफ्लोरो कार्बन	
सल्फर डॉयक्साइड	(4)	मीथेन	
113699. 1 113700. 2 113701. 3 113702. 4			
Number: 42 Question Id: 64635028966 e Question Option: No Option Orienta arks: 2 Wrong Marks: 0	Question Type : MCQ Option : Vertical	ption Shuffling: No Display Question Number:	Yes
ritiative to establish Inter	national Solar Alli	ance was jointly taken by	
intrative to establish filteri			
USA and India	(2)	France and India	
	(2) (4)	France and India China and India	
	Number: 41 Question Id: 64635028965 e Question Option: No Option Orienta arks: 2 Wrong Marks: 0 of the following pollutants Carbon Dioxide Sulphur dioxide 13699. 1 13700. 2 13701. 3 13702. 4 Number: 41 Question Id: 64635028965 e Question Option: No Option Orienta arks: 2 Wrong Marks: 0 Tean में से किस प्रदूषक को भारत में कार्बन डॉयक्साइड सल्फर डॉयक्साइड 13699. 1 13700. 2 13701. 3 13702. 4 Number: 42 Question Id: 64635028966 e Question Option: No Option Orienta	Number: 41 Question Id: 64635028965 Question Type: MCQ Of e Question Option: No Option Orientation: Vertical arks: 2 Wrong Marks: 0 of the following pollutants is included in the Carbon Dioxide (2) Sulphur dioxide (4) 13699. 1 13700. 2 13701. 3 13702. 4 Number: 41 Question Id: 64635028965 Question Type: MCQ Of e Question Option: No Option Orientation: Vertical arks: 2 Wrong Marks: 0 Read में से किस प्रदूषक को भारत में वायु गुणवत्ता सूचकांक कार्बन डॉयक्साइड (2) सत्पर डॉयक्साइड (4) 13699. 1 13700. 2 13701. 3 13702. 4 Number: 42 Question Id: 64635028966 Question Type: MCQ Of e Question Option: No Option Orientation: Vertical arks: 2 Wrong Marks: 0	Rumber: 41 Question Id: 64635028965 Question Type: MCQ Option Shuffling: No Display Question Number: e Question Option: No Option Orientation: Vertical arks: 2 Wrong Marks: 0 of the following pollutants is included in the Air Quality Index in India? Carbon Dioxide (2) Chlorofluoro carbons Sulphur dioxide (4) Methane 113699. 1 113700. 2 113701. 3 113702. 4 Rumber: 41 Question Id: 64635028965 Question Type: MCQ Option Shuffling: No Display Question Number: e Question Option: No Option Orientation: Vertical arks: 2 Wrong Marks: 0 Rear में से किस प्रदूषक को भारत में वायु गुणवत्ता सूचकांक में शामिल किया गया है? कार्बन डॉयवसाइड (2) क्लोरोफ्लोरो कार्बन सत्फर डॉयवसाइड (4) मीथेन

 $Question\ Number: 42\ Question\ Id: 64635028966\ Question\ Type: MCQ\ Option\ Shuffling: No\ Display\ Question\ Number: Yes\ Single\ Line\ Question\ Option: No\ Option\ Orientation: Vertical$

अन्तर	राष्ट्रीय सौर्य संधि (इन्टरनेशनल सोलर एल	गयन्स) की स्थापन <u>ा</u>	हेर्	हेतु संयुक्त रूप से किसने प्रयास किया था?
(1)	यू एस ए और भारत	(2))	फ्रांस और भारत
(3)	स्वीडेन और भारत	(4))	चीन और भारत
Options 646350	: 0113703. 1			
646350	0113704. 2			
646350	0113705. 3			
646350	0113706. 4			
Single Li	n Number: 43 Question Id: 64635028967 Quine Question Option: No Option Orientation Marks: 2 Wrong Marks: 0	nestion Type : MCQ (: Vertical)pti	tion Shuffling: No Display Question Number: Yes
Whiel	h of the following is / are mission	ons under the n	ati	tional action plan on climate change?
(a)	Sustaining the Himalayan ec	osystem		
(b)	Sustainable forest manageme	ent		
(c)	Strategic knowledge for clima	ate change		
Select	t the correct answer:			
(1)	(a) and (b) only	(2)	(b	o) only
(3)	(b) and (c) only	(4)	(a	a) and (c) only
646350 646350	: 0113707. 1 0113708. 2 0113709. 3 0113710. 4			
Single Li	n Number: 43 Question Id: 64635028967 Quine Question Option: No Option Orientation Marks: 2 Wrong Marks: 0	nestion Type : MCQ (: Vertical)pti	tion Shuffling: No Display Question Number: Yes
जलव	ायु परिवर्तन के संबंध में राष्ट्रीय कार्य योज	ाना के अन्तर्ग निम्नां	लेर्ब	खित में से कौन मिशन है/हैं?
(a)	हिमालयी पारिस्थितिकी तंत्र को सम्पोष	ण करना		
(b)	सतत वन प्रबंधन			
(c)	जलवायु परिवर्तन हेतु रणनीतिक जानक	ारी		
सही ः	उत्तर चुनिये			
(1)	केवल (a) और (b)	(2)	केवल (b)
(3)	केवल (b) और (c)	(4)	केवल (a) और (c)
646350	: 0113707. 1 0113708. 2 0113709. 3			

Single Li	Number: 44 Question Id: 64635 ne Question Option: No Option Marks: 2 Wrong Marks: 0	5028968 Question Type : MCQ Op Orientation : Vertical	otion Shuffling: No Display Question Number: Yes
Whic	h of the following is a	biological method of dis	sposal of Municipal Solid Waste?
(1)	Land filling	(2)	Pulverization
(3)	Composting	(4)	Shredding
Options : 646350	: 0113711. 1		
646350)113712. 2		
646350)113713. 3		
646350)113714. 4		
Single Li Correct I	ne Question Option : No Option of Marks : 2 Wrong Marks : 0		otion Shuffling : No Display Question Number : Yes ह विधि है ?
(1)	भू-भरन	(2)	चूर्णन (पॅलवॅराइजेशन)
(3)	कम्पोस्ट तैयार करना	(4)	श्रेडिंग
Options :			
646350	0113711. 1		
646350)113712. 2		
646350)113713. 3		
646350)113714. 4		
Single Li	Number: 45 Question Id: 64635 ne Question Option: No Option of Marks: 2 Wrong Marks: 0	5028969 Question Type : MCQ Op Orientation : Vertical	otion Shuffling: No Display Question Number: Yes
Blue -	– baby syndrome can l	nappen due to excess of	which component in water?
(1)	Calcium	(2)	Magnesium
(3)	Nitrates	(4)	Pesticides
Options:) 113715. 1		
)113716. 2		
)113717. 3		
	0113718. 4		
	·· •		
	Number: 45 Question Id: 64635 ne Question Option: No Option		otion Shuffling: No Display Question Number: Yes

पानी में	किसकी अधिकता से ब्ल्य्	्बेबी सिन्ड्राम होती है?	
(1)	कैल्सियम	(2)	मैग्नेसियम
(3)	नाइट्रेट	(4)	कृमिनाशक (पेस्टिसाइड)
Options:			
646350	113715. 1		
646350	113716. 2		
646350	113717. 3		
646350	113718. 4		
Single Lin	Number: 46 Question Id: 64 te Question Option: No Option Iarks: 2 Wrong Marks: 0	635028970 Question Type : MCQ Opton Orientation : Vertical	ion Shuffling: No Display Question Number: Yes
The	medium of instructi	on in the vedic system of e	education has been,
(1)	Sanskrit	(2)	Pali
(3)	Hindi	(4)	Urdu
Options: 646350	113719. 1		
646350	113720. 2		
646350	113721. 3		
646350	113722. 4		
Single Lin	Number: 46 Question Id: 64 the Question Option: No Option Harks: 2 Wrong Marks: 0	635028970 Question Type : MCQ Opton Orientation : Vertical	ion Shuffling: No Display Question Number: Yes
वैदिक	शिक्षा पद्धति में शिक्षा का	माध्यम था	
(1)	संस्कृत	(2)	पाली
(3)	हिन्दी	(4)	उर्दू
Options:			
	113719. 1		
	113720. 2		
	113721. 3		
646350	113722. 4		
Single Lin	Number: 47 Question Id: 64 te Question Option: No Option Harks: 2 Wrong Marks: 0	635028971 Question Type : MCQ Opton Orientation : Vertical	ion Shuffling: No Display Question Number: Yes

The methods of learning in Higher Education in India in the past consisted of

- Memorization, Brain Storming procedure and Seminar
- (2) Memorization, Critical Analysis and Story telling
- (3) Critical Analysis, Assignment Writing and Oral reports
- (4) Story Telling, Brain storming procedure and Seminar

Options:

646350113723.1

646350113724.2

646350113725.3

646350113726. 4

Question Number : 47 Question Id : 64635028971 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks: 2 Wrong Marks: 0

अतीत काल में भारत में उच्चतर शिक्षा के अन्तर्गत अधिगम की विधि में शामिल रहा हैं

- (1) याद करना, विचारावेशी प्रक्रिया (ब्रेन स्टॉर्मिंग) तथा सेमिनार
- (2) याद करना, समीक्षात्मक विश्लेषण तथा कथा वाचन
- (3) समीक्षात्मक विश्लेषण, समनुदेश लेखन तथा मौखिक रिपीर्ट
- (4) कथावाचन, विचारावेशी प्रक्रिया (ब्रेन स्टॉर्मिंग) तथा सेमिनार

Options:

646350113723.1

646350113724. 2

646350113725.3

646350113726.4

 $Question\ Number: 48\ Question\ Id: 64635028972\ Question\ Type: MCQ\ Option\ Shuffling: No\ Display\ Question\ Number: Yes\ Single\ Line\ Question\ Option: No\ Option\ Orientation: Vertical$

Correct Marks: 2 Wrong Marks: 0

Name the scheme which aims to create research ambience in the institutes by promoting research in engineering sciences.

- (1) E Shooth Sindhu
- (2) Entrepreneurship Development Cell
- (3) Research Promotion Schemes (RPS)
- (4) Institution Development Scheme

Options:

646350113727. 1

646350113728. 2

646350113729.3

Question Number : 48 Question Id : 64635028972 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks: 2 Wrong Marks: 0

वह कौन-सी योजना है जिसका उद्देश्य अभियांत्रिकी विज्ञान में शोध को बढ़ावा देकर संस्थानाओं में शोध का वातावरण तैयार करना है?

- ई-श्थ सिन्ध्
- (2) उद्यमिता विकास प्रकोष्ठ
- (3) शोध संवर्धन योजनाएं (आर पी एस)
- (4) संस्थान विकास योजना

Options:

646350113727. 1

646350113728. 2

646350113729.3

646350113730.4

Question Number: 49 Question Id: 64635028973 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Correct Marks: 2 Wrong Marks: 0

'Inspire scholarship' is intended by the funding agency ————.

- (1) Indian Council of Social Science and Research (ICSSR)
- (2) University Grants Commission (UGC)
- (3) Department of Science and Technology (DST)
- (4) National Council of Education, Research and Training (NCERT)

Options:

646350113731.1

646350113732. 2

646350113733.3

646350113734. 4

Question Number: 49 Question Id: 64635028973 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Correct Marks: 2 Wrong Marks: 0

'इन्सपायर स्कालरशिप' का किस एजेंसी से वित्तपोषण होता है?

- (1) भारतीय समाज विज्ञान और अनुसंघान परिषद (आई सी एस एस आर)
- (2) विश्वविद्यालय अनुदान आयोग (यू जी सी)
- (3) विज्ञान और प्रौद्योगिकी विभाग (डी एस टी)
- (4) राष्ट्रीय शैक्षणिक अनुसंधान और प्रशिक्षण परिषद् (एन सी ई आर टी)

Options:

646350113731.1

646350113732.2

Question Number: 50 Question Id: 64635028974 Question Type: MCQ Option Shuffling: No Display Question Number: Yes

Single Line Question Option: No Option Orientation: Vertical

Correct Marks: 2 Wrong Marks: 0

National Curriculum Framework was developed by which of the following?

(1) UGC

(2) NCERT

(3) NCTE

(4) CBSE

Options:

646350113735.1

646350113736. 2

646350113737.3

646350113738.4

Question Number: 50 Question Id: 64635028974 Question Type: MCQ Option Shuffling: No Display Question Number: Yes

Single Line Question Option: No Option Orientation: Vertical

Correct Marks: 2 Wrong Marks: 0

राष्ट्रीय पाठ्यचर्चा फ्रेमवर्क का निर्माण किसने किया था?

(1) यू जी सी

(2) एन सी ई आर टी

(3) एन सी टी ई

(4) सी बी एस ई

Options:

646350113735.1

646350113736. 2

646350113737.3

646350113738. 4

PART II Environmental Science

Section Id: 646350554

Section Number :2Section type :OnlineMandatory or Optional:MandatoryNumber of Questions:100Number of Questions to be attempted:100Section Marks:200Display Number Panel:Yes

Sub-Section Number:

Sub-Section Id: 6463501413

Question Shuffling Allowed: Yes

Question Number: 51 Question Id: 64635028975 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

No

Correct Marks: 2 Wrong Marks: 0

Group All Questions:

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

Assertion (A): Strategic Environmental Assessment (SEA) is a more advanced tool in environmental management.

Reason (R) : SEA is applicable at the level of policy, planning and programmes.

Choose the correct answer from the options given below:

- 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:

646350113739.1

646350113740.2

646350113741.3

646350113742.4

Question Number: 51 Question Id: 64635028975 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): Strategic Environmental Assessment (SEA) is a more advanced tool in environmental management.

Reason (R) : SEA is applicable at the level of policy, planning and programmes.

Choose the correct answer from the options given below:

- 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:

646350113	39. 1	
646350113	40. 2	
646350113	41. 3	
646350113	42. 4	
Single Line Q	er: 52 Question Id: 64635028976 Question Type: MCQ Option Shuffling: No Display Question Numb stion Option: No Option Orientation: Vertical 2 Wrong Marks: 0	er : Ye
Atmospl of	eric Scale Height (H) is the height over which pressure decreases by a fact	or
1.	e	
2.	10	
3.	π	
4.	2	
Options : 646350113	43. 1	
646350113	44. 2	
646350113	4 5. 3	
646350113	46. 4	
Single Line Q	er: 52 Question Id: 64635028976 Question Type: MCQ Option Shuffling: No Display Question Numb stion Option: No Option Orientation: Vertical 2 Wrong Marks: 0	er : Ye
	eric Scale Height (H) is the height over which pressure decreases by a fact	tor
1.	e	
2.	10	
3.	π	
4.	2	
Options : 646350113	43. 1	
646350113	44. 2	
646350113	45. 3	
646350113	46. 4	
Question Num	er: 53 Question Id: 64635028977 Question Type: MCQ Option Shuffling: No Display Question Numb	er : Ye

Single Line Question Option : No Option Orientation : Vertical

A 100 mL sample of paper industry effluent is digested in acidified dichromate solution and by back titration it is found that 5×10^{-4} mol of dichromate has been consumed in chemical oxidation. What is COD (mgO₂L⁻¹) of the sample?

- 1. 120
- 2. 620
- 3. 240
- 4. 310

Options:

646350113747.1

646350113748. 2

646350113749.3

646350113750.4

Question Number: 53 Question Id: 64635028977 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 100 mL sample of paper industry effluent is digested in acidified dichromate solution and by back titration it is found that 5×10^{-4} mol of dichromate has been consumed in chemical oxidation. What is COD (mgO₂L⁻¹) of the sample?

- 1. 120
- 2. 620
- 3. 240
- 4. 310

Options:

646350113747. 1

646350113748. 2

646350113749.3

646350113750.4

Question Number: 54 Question Id: 64635028978 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Acid mine drainage from underground mines occurs as

- Non-point discharge
- Point discharge
- Spoil tip drainage
- Slurry lagoon drainage

Options:

646350113751.1

646350113752. 2

646350113753.3

646350113754. 4

Question Number: 54 Question Id: 64635028978 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Correct Marks: 2 Wrong Marks: 0

Acid mine drainage from underground mines occurs as

- 1. Non-point discharge
- Point discharge
- Spoil tip drainage
- Slurry lagoon drainage

Options:

646350113751.1

646350113752. 2

646350113753.3

646350113754. 4

Question Number : 55 Question Id : 64635028979 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks: 2 Wrong Marks: 0

Predators and parasites are similar in that, both can be characterised by

- 1. +/+ interaction
- 2. +/- interaction
- 3. ——interaction
- 4. +/0 interaction

Options:

646350113755. 1 646350113756. 2 646350113757. 3

646350113758. 4

Question Number: 55 Question Id: 64635028979 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Correct Marks: 2 Wrong Marks: 0

Predators and parasites are similar in that, both can be characterised by

- 1. +/+ interaction
- 2. +/- interaction
- 3. ——— interaction
- +/0 interaction

Options:

646350113755.1

646350113756. 2

646350113757.3

646350113758. 4

Question Number: 56 Question Id: 64635028980 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 do all the terrestrial biomes have in common?

- Annual average rainfall in excess of 25 cm
- 2. Clear boundaries between adjacent biomes
- Vegetation demonstrating adjacent stratification
- Biodiversity pattern that is directly proportional to latitude

Options:

646350113759. 1

646350113760.2

646350113761.3

646350113762. 4

Question Number: 56 Question Id: 64635028980 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Which one among the following do all the terrestrial biomes have in common?

- Annual average rainfall in excess of 25 cm 1.
- 2. Clear boundaries between adjacent biomes
- Vegetation demonstrating adjacent stratification 3.
- Biodiversity pattern that is directly proportional to latitude 4.

Options:

646350113759. 1

646350113760.2

646350113761.3

646350113762.4

Question Number: 57 Question Id: 64635028981 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 modes of energy generation has maximum conversion efficiency?

- Hydroelectric 1.
- 2. Thermoelectric
- Hydrogen fuel cell 3.
- Geothermal 4.

Options:

646350113763.1

646350113764. 2

646350113765.3

646350113766. 4

Question Number: 57 Question Id: 64635028981 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Which of the following modes of energy generation has maximum conversion efficiency?

- 1. Hydroelectric
- Thermoelectric
- Hydrogen fuel cell
- Geothermal

Options:

646350113763.1

646350113764. 2

646350113765.3

646350113766. 4

Question Number: 58 Question Id: 64635028982 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Correct Marks: 2 Wrong Marks: 0

Spring tides occur

- 1. When sun and moon are at right angle with respect to earth
- In spring season
- 3. During half-moons
- 4. When sun, moon and earth are aligned linearly

Options:

646350113767.1

646350113768. 2

646350113769.3

646350113770.4

Question Number: 58 Question Id: 64635028982 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Correct Marks: 2 Wrong Marks: 0

Spring tides occur

- 1. When sun and moon are at right angle with respect to earth
- In spring season
- 3. During half-moons
- 4. When sun, moon and earth are aligned linearly

Options:

646350113767. 1 646350113768. 2

646350113769.3

646350113770.4

Question Number : 59 Question Id : 64635028983 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 required solar panel area for photovoltaic cells with efficiency of 20% and incident solar radiation of 400 W/m² to run an electric geyser of 2 kW?

- 1. 2.5 m^2
- $2. 25 \text{ m}^2$
- 3. 37.5 m^2
- 4. 0.25 m^2

Options:

646350113771.1

646350113772. 2

646350113773.3

646350113774.4

Question Number: 59 Question Id: 64635028983 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 required solar panel area for photovoltaic cells with efficiency of 20% and incident solar radiation of 400 W/m² to run an electric geyser of 2 kW?

- 1. 2.5 m^2
- $2. 25 \text{ m}^2$
- 3. 37.5 m^2
- 4. 0.25 m^2

Options:

646350113771.1

646350113772. 2

646350113773.3

646350113774. 4

Question Number : 60 Question Id : 64635028984 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

A windmill has 10-m diameter and efficiency of 40%. Wind velocity at normal temperature and pressure is 10 m/s and the density of air is 1·29 kg/m³. The expected power output from the windmill is

- 1. 20·0 kW
- 2. 20·27 kW
- 10.27 kW
- 4. 10.0 kW

Options:

646350113775.1

646350113776. 2

646350113777.3

646350113778. 4

Question Number: 60 Question Id: 64635028984 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 windmill has 10-m diameter and efficiency of 40%. Wind velocity at normal temperature and pressure is 10 m/s and the density of air is 1·29 kg/m³. The expected power output from the windmill is

- 20.0 kW
- 2. 20·27 kW
- 10.27 kW
- 10.0 kW

Options:

646350113775.1

646350113776. 2

646350113777. 3

646350113778. 4

Question Number : 61 Question Id : 64635028985 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

An ozone analyser shows 100 ppb concentration at 1 atmosphere or atm and 25 °C. Convert the observed concentration of ozone in $\mu g/m^3$:

- 1. 96.0
- 2. 196.2
- 3. 200.0
- 4. 48.92

Options:

646350113779.1

646350113780. 2

646350113781.3

646350113782. 4

Question Number: 61 Question Id: 64635028985 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Correct Marks: 2 Wrong Marks: 0

An ozone analyser shows 100 ppb concentration at 1 atmosphere or atm and 25 °C. Convert the observed concentration of ozone in $\mu g/m^3$:

- 1. 96.0
- 2. 196.2
- 3. 200.0
- 4. 48.92

Options:

646350113779.1

646350113780. 2

646350113781.3

646350113782. 4

Question Number : 62 Question Id : 64635028986 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Match List-I (Gases) with List-II (Measurement Techniques):

List-I (Gases)

List-II (Measurement Techniques)

(a) Ozone

(i) IR Absorption

(b) NO_X

(ii) Pulsed Fluorescence

(c) SO₂

(iii) Chemiluminescence

(d) CO

(iv) Ultraviolet Absorption

Choose the correct answer from the options given below:

Options:

646350113783.1

646350113784. 2

646350113785.3

646350113786. 4

Question Number: 62 Question Id: 64635028986 Question Type: MCQ Option Shuffling: No Display Question Number: Yes

Single Line Question Option : No Option Orientation : Vertical

Match List-I (Gases) with List-II (Measurement Techniques):

List-I (Gases)

List-II (Measurement Techniques)

(a) Ozone

(i) IR Absorption

(b) NO_X

(ii) Pulsed Fluorescence

(c) SO₂

(iii) Chemiluminescence

(d) CO

(iv) Ultraviolet Absorption

Choose the correct answer from the options given below:

Options:

646350113783.1

646350113784. 2

646350113785.3

646350113786. 4

Question Number: 63 Question Id: 64635028987 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 as Reason (R).

Assertion (A): Refuse derived fuel from municipal solid waste has higher energy content than raw municipal solid waste.

Reason (R) : Combustible organic material gets concentrated in fuel pellets produced from municipal solid waste.

Choose the correct answer from the options given below.

- 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:

646350113787.1

646350113788. 2

646350113789.3

646350113790.4

Question Number: 63 Question Id: 64635028987 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 as Reason (R).

Assertion (A): Refuse derived fuel from municipal solid waste has higher energy content than raw municipal solid waste.

Reason (R) : Combustible organic material gets concentrated in fuel pellets produced from municipal solid waste.

Choose the correct answer from the options given below.

- 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:

646350113787.1

646350113788. 2

646350113789.3

646350113790.4

Question Number : 64 Question Id : 64635028988 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 a normal distribution f(x) of variable x. What percentage of variable values deviate from the mean by more than $2\sigma_x$?

- 1. ~0.26%
- 2. ~2.64%
- 3. ~31.74%
- 4. ~4.56%

Options:

646350113791.1

646350113792. 2

646350113793. 3

Correct Marks: 2 Wrong Marks: 0

Consider a normal distribution f(x) of variable x. What percentage of variable values deviate from the mean by more than $2\sigma_x$?

- 1. ~0.26%
- 2. ~2.64%
- 3. ~31.74%
- 4. ~4.56%

Options:

646350113791.1

646350113792. 2

646350113793.3

646350113794. 4

Question Number: 65 Question Id: 64635028989 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 with independent frequency distributions with means μ_x and μ_y and variances σ_x^2 and σ_y^2 , then the population variance of their difference σ_{x-y}^2 is

- 1. $\sigma_x^2 + \sigma_y^2$
- 2. $\sigma_x^2 \sigma_y^2$
- 3. $\mu_x \sigma_x^2 + \mu_y \sigma_y^2$
- 4. $\mu_{\mathbf{r}}\sigma_{\mathbf{r}}^2 \mu_{\mathbf{r}}\sigma_{\mathbf{r}}^2$

Options:

646350113795.1

646350113796.2

646350113797.3

646350113798.4

Question Number: 65 Question Id: 64635028989 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 with independent frequency distributions with means μ_x and μ_y and variances σ_x^2 and σ_y^2 , then the population variance of their difference σ_{x-y}^2 is

1.
$$\sigma_x^2 + \sigma_y^2$$

2.
$$\sigma_x^2 - \sigma_y^2$$

$$3. \qquad \mu_x \sigma_x^2 + \mu_y \sigma_y^2$$

4.
$$\mu_x \sigma_x^2 - \mu_x \sigma_y^2$$

Options:

646350113795.1

646350113796. 2

646350113797.3

646350113798. 4

Question Number : 66 Question Id : 64635028990 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 as Reason (R).

Assertion (A): Sounds with a frequency <100 Hz (base notes) need to be of a higher energy before damage to ear occurs.

Reason (R) : Human ear has variable frequency response.

Choose the correct answer from the options given below.

- 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:

646350113799. 1

646350113800.2

646350113801.3

Question Number : 66 Question Id : 64635028990 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 as Reason (R).

Assertion (A): Sounds with a frequency <100 Hz (base notes) need to be of a higher energy before damage to ear occurs.

Reason (R) : Human ear has variable frequency response.

Choose the correct answer from the options given below.

- 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:

646350113799.1

646350113800.2

646350113801.3

646350113802.4

Question Number: 67 Question Id: 64635028991 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Correct Marks: 2 Wrong Marks: 0

Landslide incidences in the Himalayas have increased due to:

- (a) Increased rainfall
- (b) Deforestation
- (c) Construction of new roads

Choose the correct option:

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

Options:

646350113803. 1 646350113804. 2 646350113805. 3 646350113806. 4

 $Question\ Number: 67\ Question\ Id: 64635028991\ Question\ Type: MCQ\ Option\ Shuffling: No\ Display\ Question\ Number: Yes\ Single\ Line\ Question\ Option: No\ Option\ Orientation: Vertical$

Correct Marks: 2 Wrong Marks: 0

Landslide incidences in the Himalayas have increased due to :

- (a) Increased rainfall
- (b) Deforestation
- (c) Construction of new roads

Choose the correct option:

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

Options:

646350113803.1

646350113804. 2

646350113805.3

646350113806.4

Question Number : 68 Question Id : 64635028992 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks: 2 Wrong Marks: 0

Hardness of minerals depends on

- Chemical composition and physical makeup
- Physical makeup and atomic constitution
- Parent material
- 4. Chemical composition and atomic constitution

Options:

646350113807.1

646350113808. 2

646350113809. 3

Question Number: 68 Question Id: 64635028992 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Correct Marks: 2 Wrong Marks: 0

Hardness of minerals depends on

- 1. Chemical composition and physical makeup
- 2. Physical makeup and atomic constitution
- 3. Parent material
- 4. Chemical composition and atomic constitution

Options:

646350113807.1

646350113808. 2

646350113809.3

646350113810.4

Question Number: 69 Question Id: 64635028993 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 (Taxa) with List-II (Taxa Property):

List–I List–II (Taxa) (Taxa Property)

(a) Mycorrhiza

(i) Stem hypertrophy

(b) Mangroves

(ii) Mutualism

(c) Orchids

- (iii) Lenticels
- (d) Aquatic trees
- (iv) Epiphytes

Choose the correct answer from the options given below:

Options:

646350113811. 1

646350113812. 2

Question Number: 69 Question Id: 64635028993 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 (Taxa) with List-II (Taxa Property):

List-I (Taxa) List-II (Taxa Property)

(a) Mycorrhiza

(i) Stem hypertrophy

(b) Mangroves

(ii) Mutualism

(c) Orchids

- (iii) Lenticels
- (d) Aquatic trees
- (iv) Epiphytes

Choose the correct answer from the options given below:

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

Options:

646350113811.1

646350113812.2

646350113813.3

646350113814. 4

Question Number: 70 Question Id: 64635028994 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 correct hierarchical level of organisation in ecology?

- Organism, population, community, ecosystem, biome, landscape, ecosphere
- 2. Organism, population, community, ecosystem, landscape, biome, ecosphere
- 3. Organism, community, population, ecosystem, landscape, biome, ecosphere
- 4. Organism, population, community, landscape, ecosystem, biome, ecosphere

Options:

646350113815. 1

646350113817. 3 646350113818. 4

Question Number: 70 Question Id: 64635028994 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 correct hierarchical level of organisation in ecology?

- Organism, population, community, ecosystem, biome, landscape, ecosphere
- Organism, population, community, ecosystem, landscape, biome, ecosphere
- 3. Organism, community, population, ecosystem, landscape, biome, ecosphere
- 4. Organism, population, community, landscape, ecosystem, biome, ecosphere

Options:

646350113815.1

646350113816.2

646350113817.3

646350113818. 4

Question Number: 71 Question Id: 64635028995 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 largest unit, in which gene flow is possible, is

- 1. Population
- Genus
- 3. Species
- 4. Family

Options:

646350113819. 1

646350113820. 2

646350113821.3

646350113822.4

Question Number: 71 Question Id: 64635028995 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

The largest unit, in which gene flow is possible, is

- 1. Population
- Genus
- Species
- 4. Family

Options:

646350113819. 1

646350113820.2

646350113821.3

646350113822. 4

Question Number: 72 Question Id: 64635028996 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Correct Marks: 2 Wrong Marks: 0

Mycorrhizae enhance plant nutrition mainly by

- 1. Providing sugar to root cells
- 2. Absorbing water and minerals
- Converting atmospheric nitrogen to ammonia
- 4. Enhancing root growth

Options:

646350113823.1

646350113824. 2

646350113825.3

646350113826.4

Question Number: 72 Question Id: 64635028996 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Correct Marks: 2 Wrong Marks: 0

Mycorrhizae enhance plant nutrition mainly by

- Providing sugar to root cells
- 2. Absorbing water and minerals
- Converting atmospheric nitrogen to ammonia
- 4. Enhancing root growth

Options:

646350113823.1

646350113825. 3 646350113826. 4

Question Number: 73 Question Id: 64635028997 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): The occurrence of acid rain over the Indian landmass is extremely rare.

Reason (R) : The alkaline dust and ammonia (NH₃) produced from agricultural areas neutralise the acid formation in the atmosphere.

Choose the correct answer from the options given below.

- 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:

646350113827.1

646350113828. 2

646350113829.3

646350113830.4

Question Number: 73 Question Id: 64635028997 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): The occurrence of acid rain over the Indian landmass is extremely

rare.

Reason (R) : The alkaline dust and ammonia (NH₃) produced from agricultural

areas neutralise the acid formation in the atmosphere.

Choose the correct answer from the options given below.

- 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:

646350113827. 1

646350113828. 2

646350113829.3

646350113830.4

Question Number: 74 Question Id: 64635028998 Question Type: MCQ Option Shuffling: No Display Question Number: Yes

Single Line Question Option: No Option Orientation: Vertical

Match List-I (Environmental Pollutant) with List-II (Instruments Used for Analysis):

List-I

(Environmental Pollutant)

List-II (Instruments Used for Analysis)

PAHs (a)

(i) AAS

(b) Heavy metals

UV-Vis spectrophotometer (ii)

Sulphate ions (c)

Electrophoresis (iii)

Nucleotides (d)

(iv) HPLC

Choose the correct answer from the options given below:

Options:

646350113831.1

646350113832. 2

646350113833.3

646350113834.4

Question Number: 74 Question Id: 64635028998 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Match List-I (Environmental Pollutant) with List-II (Instruments Used for Analysis):

List-I

(Environmental Pollutant)

List-II (Instruments Used for Analysis)

PAHs (a)

(i) AAS

(b) Heavy metals

UV-Vis spectrophotometer (ii)

Sulphate ions (c)

Electrophoresis (iii)

Nucleotides (d)

(iv) HPLC

Choose the correct answer from the options given below:

Options:

646350113831.1

646350113832. 2

646350113833.3

646350113834.4

Question Number: 75 Question Id: 64635028999 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): If BOD level of water in a reservoir is less than 5 mgL⁻¹, it is highly polluted.

Reason (R) : High BOD means high microbial activity.

Choose the correct answer from the options given below.

- 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:

646350113835.1

646350113836.2

646350113837.3

646350113838.4

Question Number : 75 Question Id : 64635028999 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): If BOD level of water in a reservoir is less than 5 mgL⁻¹, it is highly polluted.

Reason (R) : High BOD means high microbial activity.

Choose the correct answer from the options given below.

- 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:

646350113835.1

646350113836. 2

Question Number : 76 Question Id : 64635029000 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 CAN NOT be categorized as VOCs?

- Polycyclic Aromatic Hydrocarbons
- Halocarbons
- 3. Non-methane Hydrocarbons
- Oxygenates

Options:

646350113839. 1

646350113840.2

646350113841.3

646350113842.4

Question Number : 76 Question Id : 64635029000 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 CAN NOT be categorized as VOCs?

- Polycyclic Aromatic Hydrocarbons
- Halocarbons
- Non-methane Hydrocarbons
- Oxygenates

Options:

646350113839.1

646350113840. 2

646350113841.3

646350113842.4

 $Question\ Number: 77\ Question\ Id: 64635029001\ Question\ Type: MCQ\ Option\ Shuffling: No\ Display\ Question\ Number: Yes\ Single\ Line\ Question\ Option: No\ Option\ Orientation: Vertical$

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

Assertion (A): Carbon dioxide content in soil air is more than atmospheric air.

Reason (R) : Carbon dioxide released from automobile exhaust and industries gets sequestered in the soil.

Choose the correct answer from the options given below.

- 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:

646350113843.1

646350113844. 2

646350113845.3

646350113846. 4

 $Question\ Number: 77\ Question\ Id: 64635029001\ Question\ Type: MCQ\ Option\ Shuffling: No\ Display\ Question\ Number: Yes\ Single\ Line\ Question\ Option: No\ Option\ Orientation: Vertical$

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

Assertion (A): Carbon dioxide content in soil air is more than atmospheric air.

Reason (R) : Carbon dioxide released from automobile exhaust and industries gets sequestered in the soil.

Choose the correct answer from the options given below.

- 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:

646350113843.1

646350113844. 2

646350113845.3

646350113846. 4

 $Question\ Number: 78\ Question\ Id: 64635029002\ Question\ Type: MCQ\ Option\ Shuffling: No\ Display\ Question\ Number: Yes\ Single\ Line\ Question\ Option: No\ Option\ Orientation: Vertical$

Fulvic acid molecules in soil humus are

- (a) Randomly coiled
- (b) More polar
- (c) Highly charged
- (d) Smaller molecules than humic acid molecules

Choose the correct option:

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

Options:

646350113847.1

646350113848. 2

646350113849.3

646350113850.4

Question Number: 78 Question Id: 64635029002 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Fulvic acid molecules in soil humus are

- (a) Randomly coiled
- (b) More polar
- (c) Highly charged
- (d) Smaller molecules than humic acid molecules

Choose the correct option:

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

Options:

646350113847.1

646350113848. 2

646350113849.3

646350113850.4

Question Number: 79 Question Id: 64635029003 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Wind rose reveals

- (a) Percentage of times winds persist in a specific direction
- (b) Most probable direction of winds
- (c) Percentage duration for which wind speeds are in a given range
- (d) Wind energy potential

Select the correct answer from the options given below:

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

Options:

646350113851.1

646350113852. 2

646350113853.3

646350113854. 4

 $Question\ Number: 79\ Question\ Id: 64635029003\ Question\ Type: MCQ\ Option\ Shuffling: No\ Display\ Question\ Number: Yes\ Single\ Line\ Question\ Option: No\ Option\ Orientation: Vertical$

Wind rose reveals

- (a) Percentage of times winds persist in a specific direction
- (b) Most probable direction of winds
- (c) Percentage duration for which wind speeds are in a given range
- (d) Wind energy potential

Select the correct answer from the options given below:

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

Options:

646350113851.1

646350113852.2

646350113853.3

646350113854.4

 $Question\ Number: 80\ Question\ Id: 64635029004\ Question\ Type: MCQ\ Option\ Shuffling: No\ Display\ Question\ Number: Yes\ Single\ Line\ Question\ Option: No\ Option\ Orientation: Vertical$

Correct Marks: 2 Wrong Marks: 0

Spectral response pattern of leaves in healthy vegetation in SWIR region of EMR is primarily a function of

- 1. Chlorophyll content
- 2. Leaf parenchyma
- 3. Water content of the leaf
- 4. Presence of waxy layer on epidermis

Options:

646350113855.1

646350113856. 2

646350113857.3

Question Number: 80 Question Id: 64635029004 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Correct Marks: 2 Wrong Marks: 0

Spectral response pattern of leaves in healthy vegetation in SWIR region of EMR is primarily a function of

- Chlorophyll content
- 2. Leaf parenchyma
- Water content of the leaf
- 4. Presence of waxy layer on epidermis

Options:

646350113855.1

646350113856. 2

646350113857.3

646350113858. 4

Question Number: 81 Question Id: 64635029005 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 forest type has the highest percentage cover in the country?

- Tropical deciduous
- 2. Tropical evergreen
- 3. Temperature deciduous
- Mangrove

Options:

646350113859. 1

646350113860. 2

646350113861.3

646350113862. 4

Question Number: 81 Question Id: 64635029005 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Which forest type has the highest percentage cover in the country?

- 1. Tropical deciduous
- 2. Tropical evergreen
- 3. Temperature deciduous
- 4. Mangrove

Options:

646350113859. 1

646350113860.2

646350113861.3

646350113862. 4

Question Number: 82 Question Id: 64635029006 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Correct Marks: 2 Wrong Marks: 0

Saturation vapour pressure at a given temperature is 900 mbar while it is 600 mbar at dew point temperature. What will be the relative humidity?

- 1. 90%
- 2. 66.7%
- 3. 60%
- 4. 76.6%

Options:

646350113863.1

646350113864. 2

646350113865.3

646350113866. 4

Question Number: 82 Question Id: 64635029006 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Saturation vapour pressure at a given temperature is 900 mbar while it is 600 mbar at dew point temperature. What will be the relative humidity?

- 1. 90%
- 2. 66.7%
- 3. 60%
- 4. 76.6%

Options:

646350113863.1

646350113864. 2

646350113865.3

646350113866. 4

Question Number: 83 Question Id: 64635029007 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Correct Marks: 2 Wrong Marks: 0

Major attributes of a restored ecosystem are:

- (a) Representation of all functional groups
- (b) Amelioration of physical environment
- (c) Resilience and integrity
- (d) Absence of potential threats

Choose the correct option:

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

Options:

646350113867. 1

646350113868. 2

646350113869.3

646350113870.4

Question Number: 83 Question Id: 64635029007 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Major attributes of a restored ecosystem are:

- (a) Representation of all functional groups
- (b) Amelioration of physical environment
- (c) Resilience and integrity
- (d) Absence of potential threats

Choose the correct option:

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

Options:

646350113867.1

646350113868. 2

646350113869.3

646350113870.4

Question Number: 84 Question Id: 64635029008 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 as Reason (R).

Assertion (A): Biogas production is reduced in winters.

Reason (R) : Methanogenesis occurs at mesophilic temperatures.

Choose the correct answer from the options given below.

- 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:

646350113871.1

646350113872. 2

646350113873. 3 646350113874. 4

Question Number: 84 Question Id: 64635029008 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 as Reason (R).

Assertion (A): Biogas production is reduced in winters.

Reason (R) : Methanogenesis occurs at mesophilic temperatures.

Choose the correct answer from the options given below.

- 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:

646350113871.1

646350113872. 2

646350113873.3

646350113874.4

Question Number: 85 Question Id: 64635029009 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Arrange the following biomes in the increasing order of primary productivity:

- (a) Savannah
- (b) Boreal forests
- (c) Temperate forests
- (d) Temperate grasslands

Choose the correct option:

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

Options:

646350113875.1

646350113876. 2

646350113877.3

646350113878.4

Question Number: 85 Question Id: 64635029009 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Arrange the f	following biomes in the increasing order of primary productivity:
(a)	Savannah
(b)	Boreal forests
(c)	Temperate forests
(d)	Temperate grasslands
Choose the co	orrect option :
1. (a	a), (c), (b) and (d)
2. (e), (b), (a) and (d)
3. (0	e), (a), (d) and (b)
4. (1	o), (c), (d) and (a)
Options: 646350113875. 1 646350113876. 2 646350113877. 3 646350113878. 4	
Question Number: 86 Single Line Question Correct Marks: 2 Wi	Question Id: 64635029010 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Option: No Option Orientation: Vertical
	of visible radiation accounts for total solar radiation incident on top of
1. 7	
2. 41	
3. 56	
4. 75	
Options: 646350113879. 1	

646350113880. 2 646350113881. 3 646350113882. 4 Question Number: 86 Question Id: 64635029010 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 percent of visible radiation accounts for total solar radiation incident on top of atmosphere?

- 1. 7
- 2. 41
- 3. 56
- 4. 75

Options:

646350113879. 1

646350113880. 2

646350113881.3

646350113882. 4

Question Number: 87 Question Id: 64635029011 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Correct Marks: 2 Wrong Marks: 0

Ozone depleting potential is measured with reference to

- 1. CFC-11
- 2. CFC-12
- HCFC-22
- 4. CFC-113

Options:

646350113883. 1

646350113884. 2

646350113885.3

646350113886.4

 $Question\ Number: 87\ Question\ Id: 64635029011\ Question\ Type: MCQ\ Option\ Shuffling: No\ Display\ Question\ Number: Yes\ Single\ Line\ Question\ Option: No\ Option\ Orientation: Vertical$

Ozone depleting potential is measured with reference to

- 1. CFC-11
- 2. CFC-12
- HCFC-22
- 4. CFC-113

Options:

646350113883. 1

646350113884. 2

646350113885.3

646350113886. 4

 $Question\ Number: 88\ Question\ Id: 64635029012\ Question\ Type: MCQ\ Option\ Shuffling: No\ Display\ Question\ Number: Yes\ Single\ Line\ Question\ Option: No\ Option\ Orientation: Vertical$

Correct Marks: 2 Wrong Marks: 0

According to National Ambient Air Quality Standards (NAAQS) annual average concentration (μg/m³) for SO₂ and NO₂ in ecologically sensitive areas are

- 1. 20 and 60 respectively
- 80 and 47 respectively
- 3. 50 and 20 respectively
- 20 and 30 respectively

Options:

646350113887. 1

646350113888. 2

646350113889. 3

646350113890. 4

 $Question\ Number: 88\ Question\ Id: 64635029012\ Question\ Type: MCQ\ Option\ Shuffling: No\ Display\ Question\ Number: Yes\ Single\ Line\ Question\ Option: No\ Option\ Orientation: Vertical$

According to National Ambient Air Quality Standards (NAAQS) annual average concentration (µg/m³) for SO₂ and NO₂ in ecologically sensitive areas are

- 20 and 60 respectively
- 2. 80 and 47 respectively
- 3. 50 and 20 respectively
- 4. 20 and 30 respectively

Options:

646350113887. 1

646350113888. 2

646350113889.3

646350113890. 4

Question Number: 89 Question Id: 64635029013 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 toxic metal is present in the colour printing inks of magazine pages?

- 1. Lead
- Cadmium
- Arsenic
- Mercury

Options:

646350113891. 1

646350113892. 2

646350113893.3

646350113894. 4

Question Number: 89 Question Id: 64635029013 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 toxic metal is present in the colour printing inks of magazine pages?

- 1. Lead
- 2. Cadmium
- 3. Arsenic
- 4. Mercury

Options:

646350113891. 1 646350113892. 2 646350113893. 3 646350113894. 4

 $Question\ Number: 90\ Question\ Id: 64635029014\ Question\ Type: MCQ\ Option\ Shuffling: No\ Display\ Question\ Number: Yes\ Single\ Line\ Question\ Option: No\ Option\ Orientation: Vertical$

Correct Marks: 2 Wrong Marks: 0

Which is an exotic epigeic earthworm used widely for vermicomposting in India?

- Perionyx excavatus
- 2. Eudrilus eugeniae
- Drawida willsi
- 4. Lampito mauritii

Options:

646350113895.1

646350113896. 2

646350113897. 3

646350113898. 4

Question Number : 90 Question Id : 64635029014 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 an exotic epigeic earthworm used widely for vermicomposting in India?

- 1. Perionyx excavatus
- 2. Eudrilus eugeniae
- Drawida willsi
- 4. Lampito mauritii

Options:

646350113895.1

646350113896. 2

646350113897.3

646350113898. 4

Question Number: 91 Question Id: 64635029015 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Greenhouse gas CO₂ has very strong absorption band in the wavelength region

- 1. 4-10 μm
- 2. >13·0 μm
- 3. 2-3·5 μm
- 4. $0.7-2 \mu m$

Options:

646350113899.1

646350113900.2

646350113901.3

646350113902.4

Question Number: 91 Question Id: 64635029015 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Correct Marks: 2 Wrong Marks: 0

Greenhouse gas CO2 has very strong absorption band in the wavelength region

- 1. 4–10 μm
- 2. >13·0 μm
- 3. 2-3·5 μm
- 4. 0·7–2 μm

Options:

646350113899.1

646350113900. 2

646350113901.3

646350113902. 4

Question Number : 92 Question Id : 64635029016 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Match List-I (NGO Movements) with List-II (Years of Struggle) :

List-I (NGO Movements) List-II (Years of Struggle)

(a) Silent Valley Struggle

(i) 1973

(b) Chipko Movement

(ii) 1978

(c) Appiko Movement

(iii) 1980

(d) Gandhamardan Movement

(iv) 1983

Choose the correct answer from the options given below:

Options:

646350113903.1

646350113904. 2

646350113905.3

646350113906.4

Question Number: 92 Question Id: 64635029016 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

Match List-I (NGO Movements) with List-II (Years of Struggle) :

List-I (NGO Movements) List-II (Years of Struggle)

(a) Silent Valley Struggle

(i) 1973

(b) Chipko Movement

(ii) 1978

(c) Appiko Movement

(iii) 1980

(d) Gandhamardan Movement

(iv) 1983

Choose the correct answer from the options given below:

Options:

646350113903.1

646350113904. 2

646350113905.3

646350113906.4

 $Question\ Number: 93\ Question\ Id: 64635029017\ Question\ Type: MCQ\ Option\ Shuffling: No\ Display\ Question\ Number: Yes\ Single\ Line\ Question\ Option: No\ Option\ Orientation: Vertical$

Correct Marks: 2 Wrong Marks: 0

In order of intensity of different components of electromagnetic radiation emitted from sun reaching earth's surface, identify the correct sequence:

- 1. ultraviolet > visible > infrared
- 2. ultraviolet < visible < infrared
- 3. ultraviolet > infrared > visible
- 4. ultraviolet < infrared < visible

Options:

646350113907. 1

646350113908.2

646350113909.3

646350113910. 4

Question Number: 93 Question Id: 64635029017 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 order of intensity of different components of electromagnetic radiation emitted from sun reaching earth's surface, identify the correct sequence:

- ultraviolet > visible > infrared
- ultraviolet < visible < infrared
- ultraviolet > infrared > visible
- 4. ultraviolet < infrared < visible

Options:

646350113907.1

646350113908.2

646350113909.3

646350113910.4

Question Number : 94 Question Id : 64635029018 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks: 2 Wrong Marks: 0

Ground truth data in remote sensing is collected for:

- (a) Analysis of remote sensing data
- (b) Accuracy assessment
- (c) Calibration of remote sensing sensors

Choose the correct option:

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

Options:

646350113911. 1

646350113912. 2

646350113913.3

646350113914.4

 $Question\ Number: 94\ Question\ Id: 64635029018\ Question\ Type: MCQ\ Option\ Shuffling: No\ Display\ Question\ Number: Yes\ Single\ Line\ Question\ Option: No\ Option\ Orientation: Vertical$

Ground truth data in remote sensing is collected for:

- (a) Analysis of remote sensing data
- (b) Accuracy assessment
- (c) Calibration of remote sensing sensors

Choose the correct option:

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

Options:

646350113911.1

646350113912. 2

646350113913.3

646350113914.4

Question Number: 95 Question Id: 64635029019 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 lake has 2.5 mgL⁻¹ of dissolved organic carbon. The dissolved organic matter concentration in the lake is approximately

- 1. 6·25 mgL⁻¹
- 2. 4.25 mgL^{-1}
- 3. 3.25 mgL^{-1}
- 4. 2.75 mgL^{-1}

Options:

646350113915. 1

646350113916. 2

646350113917.3

646350113918. 4

Question Number: 95 Question Id: 64635029019 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

A lake has 2.5 mgL⁻¹ of dissolved organic carbon. The dissolved organic matter concentration in the lake is approximately

- 6⋅25 mgL⁻¹
- 2. 4·25 mgL⁻¹
- 3. 3.25 mgL^{-1}
- 4. 2.75 mgL^{-1}

Options:

646350113915. 1

646350113916.2

646350113917.3

646350113918. 4

Question Number : 96 Question Id : 64635029020 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks: 2 Wrong Marks: 0

Moderate disturbance in an ecosystem

- 1. Increases biodiversity
- 2. Decreases biodiversity
- 3. Has no effect on biodiversity
- Increases carrying capacity

Options:

646350113919.1

646350113920.2

646350113921.3

646350113922. 4

Question Number : 96 Question Id : 64635029020 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks: 2 Wrong Marks: 0

Moderate disturbance in an ecosystem

- Increases biodiversity
- 2. Decreases biodiversity
- 3. Has no effect on biodiversity
- Increases carrying capacity

Options:

646350113919. 1 646350113920. 2

646350113921.3

646350113922. 4

Question Number: 97 Question Id: 64635029021 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Correct Marks: 2 Wrong Marks: 0

Removal of decomposers from an ecosystem will lead to

- 1. Increase in number of herbivores
- Reduction in nutrient cycling
- Increased number of carnivores
- Decreased number of carnivores

Options:

646350113923.1

646350113924. 2

646350113925.3

646350113926.4

Question Number: 97 Question Id: 64635029021 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Correct Marks: 2 Wrong Marks: 0

Removal of decomposers from an ecosystem will lead to

- 1. Increase in number of herbivores
- 2. Reduction in nutrient cycling
- Increased number of carnivores
- Decreased number of carnivores

Options:

646350113923.1

646350113924. 2

646350113925.3

646350113926. 4

Question Number: 98 Question Id: 64635029022 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

What type of rock will be formed when the lava cools and crystallizes?

- 1. Intrusive igneous
- Extrusive igneous
- Metamorphic
- Sedimentary

Options:

646350113927.1

646350113928. 2

646350113929.3

646350113930. 4

Question Number: 98 Question Id: 64635029022 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 type of rock will be formed when the lava cools and crystallizes?

- 1. Intrusive igneous
- 2. Extrusive igneous
- Metamorphic
- 4. Sedimentary

Options:

646350113927.1

646350113928. 2

646350113929.3

646350113930.4

 $Question\ Number: 99\ Question\ Id: 64635029023\ Question\ Type: MCQ\ Option\ Shuffling: No\ Display\ Question\ Number: Yes\ Single\ Line\ Question\ Option: No\ Option\ Orientation: Vertical$

Correct Marks: 2 Wrong Marks: 0

Which of the following parameters provides information on ignition quality of diesel?

- Octane number
- Cetane number
- Iodine value
- Acid value

Options:

646350113931.1

646350113932. 2 646350113933. 3

646350113934. 4

Question Number : 99 Question Id : 64635029023 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 parameters provides information on ignition quality of diesel?

- Octane number
- Cetane number
- Iodine value
- Acid value

Options:

646350113931.1

646350113932. 2

646350113933.3

646350113934. 4

Question Number: 100 Question Id: 64635029024 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): Hydroxides of Aluminium (III) or Iron (III) are quite effective in

removing colloidal clay particles from turbid water.

Reason (R) : Hydroxides from positively charged flocs attract and carry down

negatively charged colloidal clay particles.

Choose the correct answer from the options given below.

- 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:

646350113935.1

646350113936. 2

646350113937.3

646350113938. 4

Question Number: 100 Question Id: 64635029024 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): Hydroxides of Aluminium (III) or Iron (III) are quite effective in

removing colloidal clay particles from turbid water.

Reason (R) : Hydroxides from positively charged flocs attract and carry down

negatively charged colloidal clay particles.

Choose the correct answer from the options given below.

- 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:

646350113935.1

646350113936.2

646350113937.3

646350113938. 4

Question Number: 101 Question Id: 64635029025 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 energy conversion process is involved in syngas production from biomass?

- 1. Combustion
- Gasification
- Pyrolysis
- 4. Fermentation

Options:

646350113939. 1

646350113940. 2

646350113941.3

646350113942.4

 $Question\ Number: 101\ Question\ Id: 64635029025\ Question\ Type: MCQ\ Option\ Shuffling: No\ Display\ Question\ Number: Yes\ Single\ Line\ Question\ Option: No\ Option\ Orientation: Vertical$

Which energy conversion process is involved in syngas production from biomass?

- 1. Combustion
- Gasification
- Pyrolysis
- Fermentation

Options:

646350113939.1

646350113940.2

646350113941.3

646350113942.4

 $Question\ Number: 102\ Question\ Id: 64635029026\ Question\ Type: MCQ\ Option\ Shuffling: No\ Display\ Question\ Number: Yes\ Single\ Line\ Question\ Option: No\ Option\ Orientation: Vertical$

Correct Marks: 2 Wrong Marks: 0

Electrostatic precipitator (ESP) is good for controlling

- VOCs
- Greenhouse gases
- 3. Fine particulate matter
- 4. Sulphur compounds

Options:

646350113943.1

646350113944. 2

646350113945.3

646350113946.4

Question Number: 102 Question Id: 64635029026 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Correct Marks: 2 Wrong Marks: 0

Electrostatic precipitator (ESP) is good for controlling

- VOCs
- Greenhouse gases
- Fine particulate matter
- Sulphur compounds

Options:

646350113943.1

646350113944. 2

646350113945.3 646350113946. 4

Question Number: 103 Question Id: 64635029027 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 method is most appropriate for separating tin cans from aluminium cans in municipal solid waste?

- Shear shredding 1.
- 2. Manual sorting
- 3. Pelletizing
- Magnetic field separation 4

Options:

646350113947. 1

646350113948. 2

646350113949.3

646350113950.4

 $Question\ Number: 103\ Question\ Id: 64635029027\ Question\ Type: MCQ\ Option\ Shuffling: No\ Display\ Question\ Number: Yes\ Single\ Line\ Question\ Option: No\ Option\ Orientation: Vertical$

Correct Marks: 2 Wrong Marks: 0

Which method is most appropriate for separating tin cans from aluminium cans in municipal solid waste?

- Shear shredding 1.
- Manual sorting 2.
- Pelletizing 3.
- Magnetic field separation 4.

Options:

646350113947. 1

646350113948. 2

646350113949.3

646350113950.4

Question Number: 104 Question Id: 64635029028 Question Type: MCQ Option Shuffling: No Display Question Number: Yes

Single Line Question Option: No Option Orientation: Vertical

Fire occurrence in the forests depends on:

- (a) Fuel load
- (b) Vegetation type
- (c) Distance from the habitations

Choose the correct option:

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

Options:

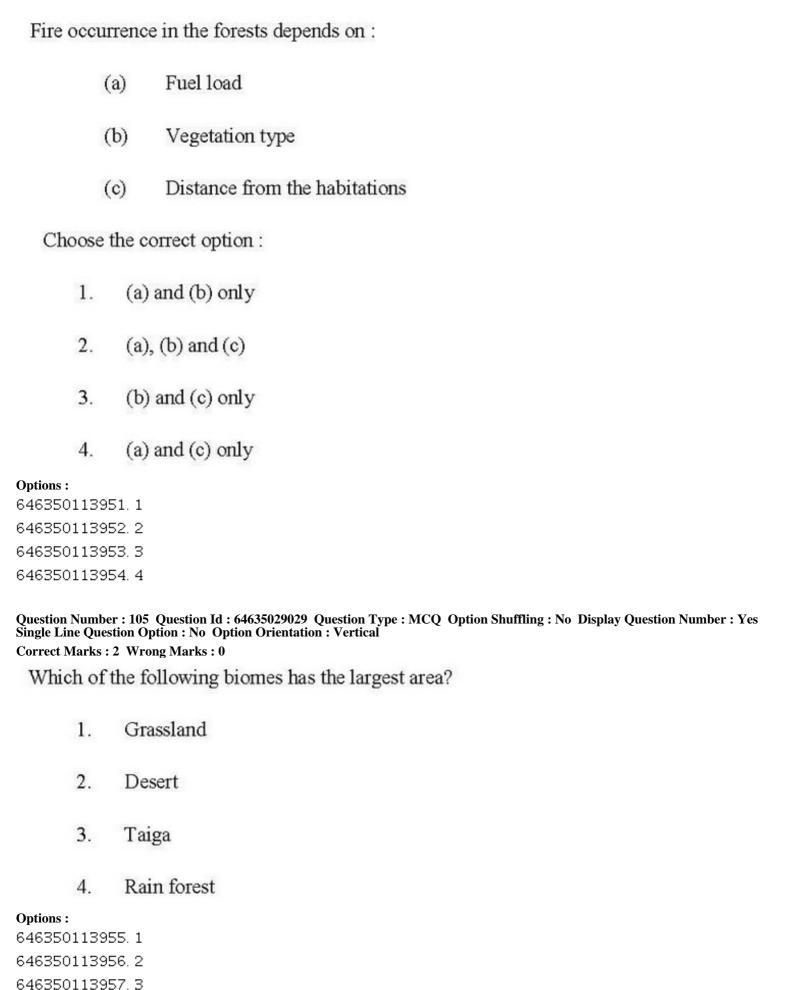
646350113951.1

646350113952. 2

646350113953.3

646350113954. 4

 $Question\ Number: 104\ Question\ Id: 64635029028\ Question\ Type: MCQ\ Option\ Shuffling: No\ Display\ Question\ Number: Yes\ Single\ Line\ Question\ Option: No\ Option\ Orientation: Vertical$



 $Question\ Number: 105\ Question\ Id: 64635029029\ Question\ Type: MCQ\ Option\ Shuffling: No\ Display\ Question\ Number: Yes\ Single\ Line\ Question\ Option: No\ Option\ Orientation: Vertical$

Correct Marks: 2 Wrong Marks: 0

646350113958. 4

Which of the following biomes has the largest area?

- 1. Grassland
- 2. Desert
- Taiga
- 4. Rain forest

Options:

646350113955. 1

646350113956. 2

646350113957.3

646350113958. 4

Question Number: 106 Question Id: 64635029030 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 (ISO Standards) with List-II (Environmental Management Aspects):

List-I (ISO Standards) List-II (Environmental Management Aspects)

- (a) ISO 14010
- (i) Environmental auditing
- (b) ISO 14020
- (ii) Environmental aspect in product standard
- (c) ISO 14050
- (iii) Environmental labelling standard
- (d) ISO 14060
- (iv) Environmental terms and definitions

Choose the correct answer from the options given below:

- 1. (a)-(i); (b)-(ii); (c)-(iv); (d)-(iii)
- 2. (a)–(iv); (b)–(iii); (c)–(i); (d)–(ii)
- 3. (a)-(i); (b)-(iii); (c)-(iv); (d)-(ii)
- 4. (a)-(iv); (b)-(ii); (c)-(iii); (d)-(i)

Options:

646350113959. 1

646350113960. 2

646350113961.3

Question Number: 106 Question Id: 64635029030 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 (ISO Standards) with List-II (Environmental Management Aspects):

List-I

List-II

(ISO Standards)

(Environmental Management Aspects)

- (a) ISO 14010
- (i) Environmental auditing
- (b) ISO 14020
- (ii) Environmental aspect in product standard
- (c) ISO 14050
- (iii) Environmental labelling standard
- (d) ISO 14060
- (iv) Environmental terms and definitions

Choose the correct answer from the options given below:

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

Options:

646350113959.1

646350113960.2

646350113961.3

646350113962. 4

Question Number: 107 Question Id: 64635029031 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 mineral to form in cooling magma?

- 1. Olivine
- Quartz
- 3. Mica
- 4. Potassium feldspar

Options:

646350113963. 1 646350113964. 2 646350113965. 3 646350113966. 4

 $Question\ Number: 107\ Question\ Id: 64635029031\ Question\ Type: MCQ\ Option\ Shuffling: No\ Display\ Question\ Number: Yes\ Single\ Line\ Question\ Option: No\ Option\ Orientation: Vertical$

Correct Marks: 2 Wrong Marks: 0

Which is the first mineral to form in cooling magma?

- 1. Olivine
- Quartz
- Mica
- Potassium feldspar

Options:

646350113963.1

646350113964. 2

646350113965.3

646350113966. 4

Question Number: 108 Question Id: 64635029032 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 instrument is used to measure total irradiance?

- 1. Pyrheliometer
- Anemometer
- 3. Pyranometer
- Hygrometer

Options:

646350113967. 1

646350113968. 2

646350113969.3

646350113970.4

Question Number: 108 Question Id: 64635029032 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Which instrument is used to measure total irradiance?

- Pyrheliometer
- Anemometer
- Pyranometer
- Hygrometer

Options:

646350113967.1

646350113968. 2

646350113969.3

646350113970.4

Question Number: 109 Question Id: 64635029033 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 a primary air pollutant?

- Surface Ozone
- Sulphate
- 3. Nitrate
- Black carbon

Options:

646350113971.1

646350113972. 2

646350113973.3

646350113974. 4

Question Number: 109 Question Id: 64635029033 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 a primary air pollutant?

- Surface Ozone
- Sulphate
- Nitrate
- Black carbon

Options:

646350113971. 1 646350113972. 2 646350113973. 3 646350113974. 4

 $Question\ Number: 110\ Question\ Id: 64635029034\ Question\ Type: MCQ\ Option\ Shuffling: No\ Display\ Question\ Number: Yes\ Single\ Line\ Question\ Option: No\ Option\ Orientation: Vertical$

Correct Marks: 2 Wrong Marks: 0

Which type of earthworms are most suitable for vermicomposting?

- 1. Anecic
- Epigeic
- 3. Endogeic
- Both endogeic and epigeic

Options:

646350113975.1

646350113976. 2

646350113977.3

646350113978. 4

 $Question\ Number: 110\ Question\ Id: 64635029034\ Question\ Type: MCQ\ Option\ Shuffling: No\ Display\ Question\ Number: Yes\ Single\ Line\ Question\ Option: No\ Option\ Orientation: Vertical$

Correct Marks : 2 Wrong Marks : 0

Which type of earthworms are most suitable for vermicomposting?

- Anecic
- 2. Epigeic
- 3. Endogeic
- 4. Both endogeic and epigeic

Options:

646350113975.1

646350113976. 2

646350113977.3

646350113978. 4

Question Number: 111 Question Id: 64635029035 Question Type: MCQ Option Shuffling: No Display Question Number: Yes

Single Line Question Option: No Option Orientation: Vertical

Remote sensing data from which of the following remote sensing satellites is most suitable for urban ecological studies?

- 1. RISAT-2
- 2. CARTOSAT-2
- LANDSAT-8
- RESOURCESAT-2 Wifs

Options:

646350113979.1

646350113980.2

646350113981.3

646350113982. 4

 $Question\ Number: 111\ Question\ Id: 64635029035\ Question\ Type: MCQ\ Option\ Shuffling: No\ Display\ Question\ Number: Yes\ Single\ Line\ Question\ Option: No\ Option\ Orientation: Vertical$

Correct Marks: 2 Wrong Marks: 0

Remote sensing data from which of the following remote sensing satellites is most suitable for urban ecological studies?

- 1. RISAT-2
- 2. CARTOSAT-2
- LANDSAT-8
- RESOURCESAT-2 Wifs

Options:

646350113979. 1

646350113980.2

646350113981.3

646350113982.4

Question Number: 112 Question Id: 64635029036 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

Cartagena Protocol deals with

- Waste management
- Protection of plant variety
- Natural resource management
- Biosafety

Options:

646350113983.1

646350113984. 2

646350113985.3

646350113986. 4

Question Number: 112 Question Id: 64635029036 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Correct Marks: 2 Wrong Marks: 0

Cartagena Protocol deals with

- 1. Waste management
- Protection of plant variety
- Natural resource management
- 4. Biosafety

Options:

646350113983.1

646350113984. 2

646350113985.3

646350113986. 4

Question Number: 113 Question Id: 64635029037 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Correct Marks: 2 Wrong Marks: 0

First State to make rainwater harvesting compulsory in India is

- Haryana
- Tamilnadu
- Gujarat
- 4. Madhya Pradesh

Options:

646350113987. 1

646350113988. 2

646350113989.3

646350113990.4

 $Question\ Number: 113\ Question\ Id: 64635029037\ Question\ Type: MCQ\ Option\ Shuffling: No\ Display\ Question\ Number: Yes\ Single\ Line\ Question\ Option: No\ Option\ Orientation: Vertical$

Correct Marks: 2 Wrong Marks: 0

First State to make rainwater harvesting compulsory in India is

- Haryana
- 2. Tamilnadu
- 3. Gujarat
- 4. Madhya Pradesh

Options:

646350113987.1

646350113988. 2

646350113989.3

646350113990.4

 $Question\ Number: 114\ Question\ Id: 64635029038\ Question\ Type: MCQ\ Option\ Shuffling: No\ Display\ Question\ Number: Yes\ Single\ Line\ Question\ Option: No\ Option\ Orientation: Vertical$

Correct Marks: 2 Wrong Marks: 0

For a H² + H³ fusion reaction if the desired confinement for the ionized fuel is 2 seconds, what must be the minimum concentration of ions per cubic meter for net gain of energy?

- 1. 0.25×10^{19}
- 2. 2.5×10^{19}
- 3. 5×10^{19}
- 4. 2×10^{19}

Options:

646350113991.1

646350113992. 2

646350113993.3

646350113994.4

Question Number: 114 Question Id: 64635029038 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

For a H² + H³ fusion reaction if the desired confinement for the ionized fuel is 2 seconds, what must be the minimum concentration of ions per cubic meter for net gain of energy?

- 1. 0.25×10^{19}
- 2. 2.5×10^{19}
- 3. 5×10^{19}
- 4. 2×10^{19}

Options:

646350113991.1

646350113992.2

646350113993.3

646350113994. 4

Question Number: 115 Question Id: 64635029039 Question Type: 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 amended rules for the implementation of Forest Rights Act of 2006, the transit passes for the transport of minor forest produce are issued by

- Gram Sabha
- 2. Forest Department
- 3. Biodiversity Monitoring Committee
- 4. District Level Committee

Options:

646350113995. 1

646350113996. 2

646350113997.3

646350113998.4

Question Number: 115 Question Id: 64635029039 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

As per the amended rules for the implementation of Forest Rights Act of 2006, the transit passes for the transport of minor forest produce are issued by

- Gram Sabha
- Forest Department
- Biodiversity Monitoring Committee
- 4. District Level Committee

Options:

646350113995. 1

646350113996. 2

646350113997.3

646350113998. 4

Question Number: 116 Question Id: 64635029040 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Correct Marks: 2 Wrong Marks: 0

Municipal Solid Waste (Management and Handling) Rules, 2000 were replaced by

- Solid Waste (Management and Handling) Rules, 2016
- 2. Solid Waste Management Rules, 2016
- Municipal Solid Waste (Management and Handling) Rules, 2016
- 4. Solid Waste Management (Handling) Rules, 2018

Options:

646350113999. 1

646350114000.2

646350114001.3

646350114002. 4

Question Number: 116 Question Id: 64635029040 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

Municipal Solid Waste (Management and Handling) Rules, 2000 were replaced by

- Solid Waste (Management and Handling) Rules, 2016
- 2. Solid Waste Management Rules, 2016
- 3. Municipal Solid Waste (Management and Handling) Rules, 2016
- 4. Solid Waste Management (Handling) Rules, 2018

Options:

646350113999. 1 646350114000. 2 646350114001. 3 646350114002. 4

 $Question\ Number: 117\ Question\ Id: 64635029041\ Question\ Type: MCQ\ Option\ Shuffling: No\ Display\ Question\ Number: Yes\ Single\ Line\ Question\ Option: No\ Option\ Orientation: Vertical$

Correct Marks: 2 Wrong Marks: 0

As per Occupational Safety and Health Administration, hazard communication pictogram of flame over circle represents the hazardous waste, to be an

- oxidizer
- acutely toxic
- explosive
- irritant

Options:

646350114003.1

646350114004.2

646350114005.3

646350114006. 4

Question Number: 117 Question Id: 64635029041 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Correct Marks: 2 Wrong Marks: 0

As per Occupational Safety and Health Administration, hazard communication pictogram of flame over circle represents the hazardous waste, to be an

- oxidizer
- 2. acutely toxic
- 3. explosive
- 4. irritant

Options:

646350114003.1

646350114004. 2

646350114005.3

646350114006.4

Question Number: 118 Question Id: 64635029042 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

UNEP awarded 'Champion of Earth' for the year 2018 for environmental contribution towards

- (a) Air pollution abatement
- (b) Beating plastic pollution
- (c) Establishing International Solar Alliance
- (d) Swachh Bharat Abhiyan

Choose the correct answer from the options given below:

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

Options:

646350114007.1

646350114008.2

646350114009.3

646350114010. 4

Question Number: 118 Question Id: 64635029042 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

UNEP awarded 'Champion of Earth' for the year 2018 for environmental contribution towards

- (a) Air pollution abatement
- (b) Beating plastic pollution
- (c) Establishing International Solar Alliance
- (d) Swachh Bharat Abhiyan

Choose the correct answer from the options given below:

- 1. (a) and (d) only
- (b) and (d) only
- 3. (a) and (b) only
- (b) and (c) only

Options:

646350114007.1

646350114008.2

646350114009.3

646350114010. 4

Question Number: 119 Question Id: 64635029043 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): The power output from a windmill is maximum for an optimal wind speed.

Reason (R) : The turbulence in the atmosphere influences wind energy production.

Choose the correct answer from the options given below.

- 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:

646350114011. 1 646350114012. 2 646350114013. 3 646350114014. 4

Question Number: 119 Question Id: 64635029043 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): The power output from a windmill is maximum for an optimal wind speed.

Reason (R) : The turbulence in the atmosphere influences wind energy production.

Choose the correct answer from the options given below.

- 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:

646350114011.1

646350114012.2

646350114013.3

646350114014. 4

 $Question\ Number: 120\ Question\ Id: 64635029044\ Question\ Type: MCQ\ Option\ Shuffling: No\ Display\ Question\ Number: Yes\ Single\ Line\ Question\ Option: No\ Option\ Orientation: Vertical$

Correct Marks: 2 Wrong Marks: 0

An aeroplane causes a sound of level 110 dB on taking off. What is the sound level of 5 such identical aeroplanes taking off simultaneously?

- 1. ∼117 dB
- 2. ~115 dB
- 3. ~113 dB
- 4. ~110 dB

Options:

646350114015.1

646350114016. 2

Question Number: 120 Question Id: 64635029044 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Correct Marks: 2 Wrong Marks: 0

An aeroplane causes a sound of level 110 dB on taking off. What is the sound level of 5 such identical aeroplanes taking off simultaneously?

- 1. ~117 dB
- 2. ~115 dB
- 3. ~113 dB
- 4. ~110 dB

Options:

646350114015.1

646350114016. 2

646350114017.3

646350114018. 4

Question Number: 121 Question Id: 64635029045 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 thermal power plant emits SO_2 at the rate of 500×10^8 µg/s. Its stack has an effective height of 200 m where wind speed is 5.0 m/s. If the horizontal and vertical dispersion coefficients are 400 m and 200 m, respectively, the downwind ground level concentration of SO_2 at a distance of 2 km will be

- 1. $\sim 241.4 \, \mu g/m^3$
- 2. ~206·5 μg/m³
- 3. $\sim 75.8 \, \mu \text{g/m}^3$
- 4. ~180·6 μg/m³

Options:

646350114019. 1

646350114020.2

646350114021.3

646350114022.4

Question Number: 121 Question Id: 64635029045 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

A thermal power plant emits SO_2 at the rate of $500 \times 10^8 \,\mu\text{g/s}$. Its stack has an effective height of 200 m where wind speed is 5.0 m/s. If the horizontal and vertical dispersion coefficients are 400 m and 200 m, respectively, the downwind ground level concentration of SO_2 at a distance of 2 km will be

- 1. $\sim 241.4 \, \mu g/m^3$
- 2. $\sim 206.5 \,\mu g/m^3$
- 3. $\sim 75.8 \, \mu \text{g/m}^3$
- 4. ~180·6 μg/m³

Options:

646350114019.1

646350114020.2

646350114021.3

646350114022.4

Question Number: 122 Question Id: 64635029046 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 ideal magnetohydrodynamic (MHD) generator, the velocity of fuel gas is increased by a factor of 1·5 and the magnetic field is increased by a factor of 2. By what factor, the maximum power produced from the MHD generator would increase?

- 1. 3
- 2. 6
- 3. 9
- 4. 4.5

Options:

646350114023. 1

646350114024. 2

646350114025.3

646350114026.4

Question Number: 122 Question Id: 64635029046 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

In an ideal magnetohydrodynamic (MHD) generator, the velocity of fuel gas is increased by a factor of 1·5 and the magnetic field is increased by a factor of 2. By what factor, the maximum power produced from the MHD generator would increase?

- 1. 3
- 2. 6
- 3. 9
- 4. 4.5

Options:

646350114023.1

646350114024. 2

646350114025.3

646350114026.4

 $Question\ Number: 123\ Question\ Id: 64635029047\ Question\ Type: MCQ\ Option\ Shuffling: No\ Display\ Question\ Number: Yes\ Single\ Line\ Question\ Option: No\ Option\ Orientation: Vertical$

Correct Marks: 2 Wrong Marks: 0

A stream of waste water having BOD of 20·0 mg/L discharges water at the rate 1·0 m³/s into river with flow rate 8·0 m³/s and BOD of 5·0 mg/L. Assuming complete and instantaneous mixing, what is the resultant BOD just downstream from the point of discharge?

- 1. ~12.5 mg/L
- 2. $\sim 6.7 \text{ mg/L}$
- 3. ~15.0 mg/L
- 4. ~1.5 mg/L

Options:

646350114027.1

646350114028. 2

646350114029.3

646350114030.4

Question Number: 123 Question Id: 64635029047 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

A stream of waste water having BOD of 20.0 mg/L discharges water at the rate 1.0 m³/s into river with flow rate 8.0 m³/s and BOD of 5.0 mg/L. Assuming complete and instantaneous mixing, what is the resultant BOD just downstream from the point of discharge?

- 1. ~12.5 mg/L
- 2. $\sim 6.7 \text{ mg/L}$
- 3. ~15.0 mg/L
- 4. ~1.5 mg/L

Options:

646350114027.1

646350114028. 2

646350114029.3

646350114030.4

Question Number: 124 Question Id: 64635029048 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 country has population of 350 million and an annual growth rate of population 2.0% at t = 0. There after the population stabilizes at 1.4 billion. How long it will take for the population to reach 0.7 billion?

- 1. ~41.2 years
- 2. ~17.9 years
- ~5 years
- ~35.0 years 4.

Options:

646350114031.1

646350114032.2

646350114033.3

646350114034.4

Question Number: 124 Question Id: 64635029048 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

A country has population of 350 million and an annual growth rate of population 2.0% at t = 0. There after the population stabilizes at 1.4 billion. How long it will take for the population to reach 0.7 billion?

- 1. ~41.2 years
- 2. ~17.9 years
- 3. ~5 years
- 4. ~35.0 years

Options:

646350114031.1

646350114032.2

646350114033.3

646350114034. 4

 $Question\ Number: 125\ Question\ Id: 64635029049\ Question\ Type: MCQ\ Option\ Shuffling: No\ Display\ Question\ Number: Yes\ Single\ Line\ Question\ Option: No\ Option\ Orientation: Vertical$

Match List-I (Ozone Depleting Substances) with List-II (Chemical Formulas):

List-I (Ozone Depleting Substances) List-II (Chemical Formulas)

(a) CFC-12

(i) CF₂ClCFCl₂

(b) CFC-113

(ii) CClF₂CF₃

(c) CFC-114

(iii) CF₂Cl₂

(d) CFC-115

(iv) CF2ClCF2Cl

Choose the correct answer from the options below.

Options:

646350114035.1

646350114036.2

646350114037.3

646350114038.4

Question Number: 125 Question Id: 64635029049 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Match List-I (Ozone Depleting Substances) with List-II (Chemical Formulas):

List-I (Ozone Depleting Substances) List-II (Chemical Formulas)

(a) CFC-12

(i) CF₂ClCFCl₂

(b) CFC-113

(ii) CClF₂CF₃

(c) CFC-114

(iii) CF₂Cl₂

(d) CFC-115

(iv) CF2ClCF2Cl

Choose the correct answer from the options below.

Options:

646350114035.1

646350114036.2

646350114037.3

646350114038.4

Question Number: 126 Question Id: 64635029050 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): The organic matter helps in formation and stabilization of soil texture.

Reason (R) : Humified organic matter has an affinity for water and can absorb and hold water upto several times of its dry weight.

Choose the correct answer from the options given below.

- 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:

646350114039.1

646350114040.2

646350114041.3

646350114042.4

Question Number: 126 Question Id: 64635029050 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): The organic matter helps in formation and stabilization of soil texture.

Reason (R) : Humified organic matter has an affinity for water and can absorb and hold water upto several times of its dry weight.

Choose the correct answer from the options given below.

- 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:

646350114039.1

646350114040.2

646350114041.3

646350114042.4

Question Number: 127 Question Id: 64635029051 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Match List-I (Soil Type) with List-II (Degree of Compressibility):

List-I (Soil Type) List–II (Degree of Compressibility)

(a) Softy Clay

(i) Low

(b) Clay

(ii) High

(c) Silt

(iii) Medium

(d) Sandy Clay

(iv) Very High

Choose the correct answer from the options given below.

- 1. (a)–(ii); (b)–(i); (c)–(iii); (d)–(iv)
- 2. (a)-(iv); (b)-(iii); (c)-(i); (d)-(ii)
- 3. (a)–(iii); (b)–(ii); (c)–(iv); (d)–(i)
- 4. (a)–(iv); (b)–(ii); (c)–(iii); (d)–(i)

Options:

646350114043.1

646350114044. 2

646350114045.3

646350114046. 4

Question Number: 127 Question Id: 64635029051 Question Type: MCQ Option Shuffling: No Display Question Number: Yes

Single Line Question Option: No Option Orientation: Vertical

Match List-I (Soil Type) with List-II (Degree of Compressibility):

List-I (Soil Type) List-II (Degree of Compressibility)

(a) Softy Clay

(i) Low

(b) Clay

(ii) High

(c) Silt

(iii) Medium

(d) Sandy Clay

(iv) Very High

Choose the correct answer from the options given below.

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

Options:

646350114043.1

646350114044. 2

646350114045.3

646350114046. 4

 $Question\ Number: 128\ Question\ Id: 64635029052\ Question\ Type: MCQ\ Option\ Shuffling: No\ Display\ Question\ Number: Yes\ Single\ Line\ Question\ Option: No\ Option\ Orientation: Vertical$

Correct Marks: 2 Wrong Marks: 0

A container has 3 white balls and 2 black balls identical in size. Two balls are drawn randomly without replacement. The probability that the two balls are of different colours is

- 1. 2/5
- 2. 3/5
- 3. 3/10
- 4. 2/10

Options:

646350114047. 1 646350114048. 2 646350114049. 3

646350114050.4

 $Question\ Number: 128\ Question\ Id: 64635029052\ Question\ Type: MCQ\ Option\ Shuffling: No\ Display\ Question\ Number: Yes\ Single\ Line\ Question\ Option: No\ Option\ Orientation: Vertical$

Correct Marks: 2 Wrong Marks: 0

A container has 3 white balls and 2 black balls identical in size. Two balls are drawn randomly without replacement. The probability that the two balls are of different colours is

- 1. 2/5
- 2. 3/5
- 3. 3/10
- 4. 2/10

Options:

646350114047.1

646350114048.2

646350114049.3

646350114050.4

 $Question\ Number: 129\ Question\ Id: 64635029053\ Question\ Type: MCQ\ Option\ Shuffling: No\ Display\ Question\ Number: Yes\ Single\ Line\ Question\ Option: No\ Option\ Orientation: Vertical$

Correct Marks: 2 Wrong Marks: 0

If s^2 is the variance of a sample of size N drawn from a normal population with variance σ^2 , then $\frac{Ns^2}{\sigma^2}$ has which one of the following distributions with (N-1) degrees of freedom?

- 1. Chi-square
- 2. Normal
- 3. Student's t
- 4. Poisson

Options:

646350114051.1

646350114052. 2

646350114053.3

Question Number: 129 Question Id: 64635029053 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 s^2 is the variance of a sample of size N drawn from a normal population with variance σ^2 , then $\frac{Ns^2}{\sigma^2}$ has which one of the following distributions with (N-1) degrees of freedom?

- 1. Chi-square
- 2. Normal
- Student's t
- 4. Poisson

Options:

646350114051.1

646350114052.2

646350114053.3

646350114054. 4

Question Number: 130 Question Id: 64635029054 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Correct Marks: 2 Wrong Marks: 0

Simultaneous measurement of humidity Y (%) and temperature X (°C) at a given site are given as under:

The correlation coefficient between Y and X is

Options:

646350114055.1

646350114056. 2

646350114057.3

Question Number: 130 Question Id: 64635029054 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Correct Marks: 2 Wrong Marks: 0

Simultaneous measurement of humidity Y (%) and temperature X (°C) at a given site are given as under :

Y: 30 40 45 60 65

X: 40 35 30 25 20

The correlation coefficient between Y and X is

- 1. -0.987
- 2. 0.826
- 3. 0.621
- $4. \quad -0.360$

Options:

646350114055.1

646350114056. 2

646350114057.3

646350114058. 4

Question Number: 131 Question Id: 64635029055 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 marks of students in a certain course averaged 75 over a period of years. A class of 50 students has a mean marks 70 with a standard deviation of 10. To test whether this lower mean can be attributed to ordinary sampling variation, *t*-statistic is required. The value of *t* is

- 1. -3.5
- 2. -0.5
- 3. -2.5
- 4. +1.5

Options:

646350114059.1

646350114060.2

646350114061.3

Question Number: 131 Question Id: 64635029055 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 marks of students in a certain course averaged 75 over a period of years. A class of 50 students has a mean marks 70 with a standard deviation of 10. To test whether this lower mean can be attributed to ordinary sampling variation, *t*-statistic is required. The value of *t* is

- 1. -3.5
- 2. -0.5
- 3. -2.5
- 4. +1.5

Options:

646350114059.1

646350114060.2

646350114061.3

646350114062.4

Question Number: 132 Question Id: 64635029056 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 simple regression equation of dependent variable (Y) and explanatory variable (X):

$$Y = a + bX + \epsilon$$

Given the following data: $S^2 = 250$, residual variance = 5, b = 0.2 and a = 0.5.

What will be the overall variance Sy^2 ?

- 1. 15
- 2. 55
- 3. 45
- 4. 10

Options:

646350114063.1

646350114064.2

646350114065.3

Question Number: 132 Question Id: 64635029056 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 simple regression equation of dependent variable (Y) and explanatory variable (X):

$$Y = a + bX + \epsilon$$

Given the following data: $S^2 = 250$, residual variance = 5, b = 0.2 and a = 0.5.

What will be the overall variance Sy^2 ?

- 1. 15
- 2. 55
- 3. 45
- 4. 10

Options:

646350114063.1

646350114064.2

646350114065.3

646350114066.4

Question Number: 133 Question Id: 64635029057 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 important characteristics of any population are

- Diversity and density
- Frequency and density
- Abundance and dispersion
- Density and dispersion

Options:

646350114067.1

646350114068.2

646350114069.3

646350114070.4

Question Number: 133 Question Id: 64635029057 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 important characteristics of any population are

- 1. Diversity and density
- 2. Frequency and density
- Abundance and dispersion
- Density and dispersion

Options:

646350114067.1

646350114068.2

646350114069.3

646350114070.4

Question Number: 134 Question Id: 64635029058 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

(iv)

Liet II

Landscape

Correct Marks: 2 Wrong Marks: 0

Liet I

Dispersion

Match List-I (Property) with List-II (Ecological Level):

	(Property)	(Ecological Level)				
(a)	Fragmentation	(i)	Community			
(b)	Assembly	(ii)	Ecosystem			
(c)	Integrity	(iii)	Population			

Choose the correct answer from the options given below:

Options:

646350114071.1

(d)

646350114072. 2

Question Number: 134 Question Id: 64635029058 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 (Property) with List-II (Ecological Level):

List-I List-II (Ecological Level) (Property) (a) Fragmentation (i) Community (b) Assembly (ii) Ecosystem (c) Integrity (iii) Population Dispersion Landscape (d) (iv)

Choose the correct answer from the options given below:

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

Options:

646350114071.1

646350114072.2

646350114073.3

646350114074. 4

Question Number: 135 Question Id: 64635029059 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Match List-I (Clay Minerals) with List-II (Cation Exchange Capacity in cmol(+) kg⁻¹)

:

List–I List–II
(Clay Minerals) (Cation Exchange Capacity in cmol (+) kg⁻¹)

- (a) Vermiculite (i) 5-25
- (b) Smectite (ii) 20-40
- (c) Illite (iii) 100-120
- (d) Kaolinite (iv) 150-160

Choose the correct answer from the options given below:

Options:

646350114075.1

646350114076.2

646350114077.3

646350114078.4

Question Number: 135 Question Id: 64635029059 Question Type: MCQ Option Shuffling: No Display Question Number: Yes

Single Line Question Option: No Option Orientation: Vertical

Match List-I (Clay Minerals) with List-II (Cation Exchange Capacity in cmol(+) kg⁻¹)

5-25

:

List–I List–II
(Clay Minerals) (Cation Exchange Capacity in cmol (+) kg⁻¹)

- (a) Vermiculite (i)
- (b) Smectite (ii) 20-40
- (c) Illite (iii) 100-120
- (d) Kaolinite (iv) 150-160

Choose the correct answer from the options given below:

- 1. (a)–(iv); (b)–(i); (c)–(iii); (d)–(ii)
- 2. (a)-(iii); (b)-(ii); (c)-(iv); (d)-(i)
- 3. (a)–(i); (b)–(ii); (c)–(iii); (d)–(iv)
- 4. (a)-(iv); (b)-(iii); (c)-(ii); (d)-(i)

Options:

646350114075.1

646350114076.2

646350114077.3

646350114078.4

Question Number: 136 Question Id: 64635029060 Question Type: MCQ Option Shuffling: No Display Question Number: Yes

Single Line Question Option: No Option Orientation: Vertical

In an urban atmosphere the concentration of CH_4 and OH radical is 5×10^{19} molecules m^3 and 1.8×10^{12} molecules m^{-3} respectively. The rate constant for 2nd order reaction between OH and methane is 8.36×10^{-21} m³ mol⁻¹s⁻¹. What is the instantaneous rate of oxidation of CH_4 ?

- 1. 3.26×10^{11} molecules m⁻³s⁻¹
- 2. 2.52×10^{12} molecules m⁻³s⁻¹
- 3. 7.52×10^{11} molecules m⁻³s⁻¹
- 4. 7.52×10^{12} molecules m⁻³s⁻¹

Options:

646350114079.1

646350114080.2

646350114081.3

646350114082.4

 $Question\ Number: 136\ Question\ Id: 64635029060\ Question\ Type: MCQ\ Option\ Shuffling: No\ Display\ Question\ Number: Yes\ Single\ Line\ Question\ Option: No\ Option\ Orientation: Vertical$

Correct Marks: 2 Wrong Marks: 0

In an urban atmosphere the concentration of CH_4 and OH radical is 5×10^{19} molecules m^3 and 1.8×10^{12} molecules m^{-3} respectively. The rate constant for 2nd order reaction between OH and methane is 8.36×10^{-21} m³ mol⁻¹s⁻¹. What is the instantaneous rate of oxidation of CH_4 ?

- 1. 3.26×10^{11} molecules m⁻³s⁻¹
- 2. 2.52×10^{12} molecules m⁻³s⁻¹
- 3. 7.52×10^{11} molecules m⁻³s⁻¹
- 4. 7.52×10^{12} molecules m⁻³s⁻¹

Options:

646350114079. 1

646350114080. 2

646350114081.3

646350114082.4

Question Number: 137 Question Id: 64635029061 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Computation of radiative forcing due to Greenhouse Gas does NOT involve

- 1. Concentration of the Greenhouse Gases present in the atmosphere
- Lapse rate of the atmosphere 2.
- 3. Wavelength at which the gas molecules absorb
- Intensity of the absorption per molecule 4.

Options:

646350114083.1

646350114084. 2

646350114085.3

646350114086. 4

 $Question\ Number: 137\ Question\ Id: 64635029061\ Question\ Type: MCQ\ Option\ Shuffling: No\ Display\ Question\ Number: Yes\ Single\ Line\ Question\ Option: No\ Option\ Orientation: Vertical$

Correct Marks: 2 Wrong Marks: 0

Computation of radiative forcing due to Greenhouse Gas does NOT involve

- Concentration of the Greenhouse Gases present in the atmosphere 1.
- Lapse rate of the atmosphere 2.
- 3. Wavelength at which the gas molecules absorb
- Intensity of the absorption per molecule 4.

Options:

646350114083. 1

646350114084. 2

646350114085.3

646350114086. 4

Question Number: 138 Question Id: 64635029062 Question Type: MCQ Option Shuffling: No Display Question Number: Yes

Single Line Question Option: No Option Orientation: Vertical

In a typical solar pond which region has the salt concentration gradient?

- Surface convective zone
- Non-convective zone
- Lower convective zone
- 4. Entire solar pond

Options:

646350114087.1

646350114088.2

646350114089.3

646350114090.4

Question Number: 138 Question Id: 64635029062 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 typical solar pond which region has the salt concentration gradient?

- 1. Surface convective zone
- Non-convective zone
- Lower convective zone
- 4. Entire solar pond

Options:

646350114087.1

646350114088. 2

646350114089.3

646350114090.4

 $Question\ Number: 139\ Question\ Id: 64635029063\ Question\ Type: MCQ\ Option\ Shuffling: No\ Display\ Question\ Number: Yes\ Single\ Line\ Question\ Option: No\ Option\ Orientation: Vertical$

In the mo	del of r	and k^-	selection,	rate	of	increase	of two	species	are	portrayed	as
function o	\mathbf{f}										

- (a) Population density
- (b) Resource density
- (c) Habitat
- (d) Size

Choose the correct answer from the options given below:

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

Options:

646350114091.1

646350114092.2

646350114093.3

646350114094.4

 $Question\ Number: 139\ Question\ Id: 64635029063\ Question\ Type: MCQ\ Option\ Shuffling: No\ Display\ Question\ Number: Yes\ Single\ Line\ Question\ Option: No\ Option\ Orientation: Vertical$

In the model	of r^-	and k^-	selection,	rate	of	increase	of tv	wo	species	are	portrayed	as
function of												

- (a) Population density
- (b) Resource density
- (c) Habitat
- (d) Size

Choose the correct answer from the options given below:

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

Options:

646350114091.1

646350114092.2

646350114093.3

646350114094.4

Question Number: 140 Question Id: 64635029064 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): In the Himalayas north-facing slopes have luxuriant growth of forests, whereas shruby drought-resistant vegetation inhabits the south-facing slopes.

Reason (R) : South-facing slopes in the northern hemisphere receive more sunlight than nearby north-facing slopes and, therefore, are warmer and drier.

Choose the correct answer from the options given below:

- 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:

646350114095. 1

646350114096.2

646350114097.3

646350114098.4

Question Number: 140 Question Id: 64635029064 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

ongle zine Question Option 110 Option Offentation : Vertical

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

Assertion (A): In the Himalayas north-facing slopes have luxuriant growth of forests, whereas shruby drought-resistant vegetation inhabits the south-facing slopes.

Reason (R) : South-facing slopes in the northern hemisphere receive more sunlight than nearby north-facing slopes and, therefore, are warmer and drier.

Choose the correct answer from the options given below:

- 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:

646350114095. 1

646350114096.2

646350114097.3

646350114098.4

Question Number: 141 Question Id: 64635029065 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 microbial metabolism involves immobilisation of soluble metal species by forming complexing agents like metal sulphides, metal carbonates and metal phosphates?

- 1. Biosorption
- Bioaccumulation
- Solubilization
- 4. Bioprecipitation

Options:

646350114099.1 646350114100.2 646350114101.3 646350114102.4

 $Question\ Number: 141\ Question\ Id: 64635029065\ Question\ Type: MCQ\ Option\ Shuffling: No\ Display\ Question\ Number: Yes\ Single\ Line\ Question\ Option: No\ Option\ Orientation: Vertical$

Correct Marks: 2 Wrong Marks: 0

Which microbial metabolism involves immobilisation of soluble metal species by forming complexing agents like metal sulphides, metal carbonates and metal phosphates?

- Biosorption 1.
- 2. Bioaccumulation
- Solubilization 3.
- Bioprecipitation 4.

Options:

646350114099.1

646350114100.2

646350114101.3

646350114102.4

Question Number: 142 Question Id: 64635029066 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 first State to be declared as an organic State of the country is

- 1. Sikkim
- Uttarakhand 2.
- 3. Himachal Pradesh
- Kerala 4.

Options:

646350114103.1

646350114104. 2

646350114105.3

Question Number: 142 Question Id: 64635029066 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 first State to be declared as an organic State of the country is

- Sikkim
- Uttarakhand
- 3. Himachal Pradesh
- Kerala

Options:

646350114103.1

646350114104. 2

646350114105.3

646350114106.4

Question Number: 143 Question Id: 64635029067 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 substances is responsible for global cooling instead of global warming?

- Black carbon
- Nitrous oxide
- Sulphate aerosols
- 4. HCFC

Options:

646350114107.1

646350114108. 2

646350114109.3

646350114110. 4

Question Number: 143 Question Id: 64635029067 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Which among the following substances is responsible for global cooling instead of global warming?

- Black carbon
- Nitrous oxide
- Sulphate aerosols
- 4. HCFC

Options:

646350114107.1

646350114108.2

646350114109.3

646350114110.4

Question Number: 144 Question Id: 64635029068 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Correct Marks: 2 Wrong Marks: 0

Major environmental impacts of the Tehri dam in the Central Himalaya are :

- (a) Submergence of fertile agricultural lands
- (b) Reservoir-induced seismicity
- (c) Increased incidences of landslides in the reservoir rim
- (d) Loss of biodiversity

Choose the correct option:

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

Options:

646350114111.1

646350114112.2

646350114113.3

Question Number: 144 Question Id: 64635029068 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Correct Marks: 2 Wrong Marks: 0

Major environmental impacts of the Tehri dam in the Central Himalaya are:

- (a) Submergence of fertile agricultural lands
- (b) Reservoir-induced seismicity
- (c) Increased incidences of landslides in the reservoir rim
- (d) Loss of biodiversity

Choose the correct option:

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

Options:

646350114111. 1

646350114112.2

646350114113.3

646350114114. 4

Question Number: 145 Question Id: 64635029069 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Correct Marks: 2 Wrong Marks: 0

Sustainable development presupposes:

- (a) Maintenance of ecosystem integrity
- (b) Improvement in economic and social conditions of people
- (c) Perpetual availability of ecosystem services

Choose the correct option:

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

Options:

646350114115. 1

646350114116. 2

646350114117. 3

646350114118. 4

 $Question\ Number: 145\ Question\ Id: 64635029069\ Question\ Type: MCQ\ Option\ Shuffling: No\ Display\ Question\ Number: Yes\ Single\ Line\ Question\ Option: No\ Option\ Orientation: Vertical$

Correct Marks: 2 Wrong Marks: 0

Sustainable development presupposes:

- (a) Maintenance of ecosystem integrity
- (b) Improvement in economic and social conditions of people
- (c) Perpetual availability of ecosystem services

Choose the correct option:

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

Options:

646350114115.1

646350114116.2

646350114117.3

646350114118. 4

 $Question\ Number: 146\ Question\ Id: 64635029070\ Question\ Type: MCQ\ Option\ Shuffling: No\ Display\ Question\ Number: Yes\ Single\ Line\ Question\ Option: No\ Option\ Orientation: Vertical$

Correct Marks: 2 Wrong Marks: 0

For a negatively skewed distribution, which is the correct relation?

- Arithmetic mean < Median < Mode
- 2. Arithmetic mean < Mode < Median
- 3. Arithmetic mean > Mode > Median
- 4. Median = Mode > Arithmetic mean

Options:

646350114119. 1

646350114120. 2

646350114121.3

Question Number: 146 Question Id: 64635029070 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Correct Marks: 2 Wrong Marks: 0

For a negatively skewed distribution, which is the correct relation?

- Arithmetic mean < Median < Mode
- 2. Arithmetic mean < Mode < Median
- 3. Arithmetic mean > Mode > Median
- 4. Median = Mode > Arithmetic mean

Options:

646350114119.1

646350114120.2

646350114121.3

646350114122. 4

Question Number: 147 Question Id: 64635029071 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 Article of the Indian Constitution was used by Government of India to enact the Environmental Protection Act (EPA), 1986?

- 1. 48 A
- 2. 253
- 3. 251
- 4. 51 A(g)

Options:

646350114123. 1

646350114124. 2

646350114125. 3

646350114126. 4

Question Number: 147 Question Id: 64635029071 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Which Article of the Indian Constitution was used by Government of India to enact the Environmental Protection Act (EPA), 1986?

- 1. 48 A
- 2. 253
- 3. 251
- 51 A(g) 4.

Options:

646350114123.1

646350114124. 2

646350114125.3

646350114126. 4

Question Number: 148 Question Id: 64635029072 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 breeder reactor

- Neutrons first convert a fertile material into fissile material and then sustain 1. the fission reaction
- Neutrons first start the fission reaction and fissile material is a by-product 2.
- 3. Fissile material produces fertile material
- Ratio of amount of fissile material produced to fissile material consumed 4. should be less than one

Options:

646350114127.1

646350114128. 2

646350114129.3

646350114130.4

Question Number: 148 Question Id: 64635029072 Question Type: MCQ Option Shuffling: No Display Question Number: Yes

Single Line Question Option: No Option Orientation: Vertical

In a breeder reactor

- Neutrons first convert a fertile material into fissile material and then sustain the fission reaction
- 2. Neutrons first start the fission reaction and fissile material is a by-product
- Fissile material produces fertile material
- Ratio of amount of fissile material produced to fissile material consumed should be less than one

Options:

646350114127. 1

646350114128. 2

646350114129.3

646350114130.4

Question Number: 149 Question Id: 64635029073 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 population, where the allele frequency shifts by a random chance, the mechanism of evolution at work is

- Co-evolution
- 2. Mutation
- Natural selection
- Genetic drift

Options:

646350114131.1

646350114132. 2

646350114133.3

646350114134. 4

Question Number: 149 Question Id: 64635029073 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

In a population, where the allele frequency shifts by a random chance, the mechanism of evolution at work is

- Co-evolution
- Mutation
- Natural selection
- Genetic drift

Options:

646350114131.1

646350114132. 2

646350114133.3

646350114134. 4

Question Number: 150 Question Id: 64635029074 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Correct Marks: 2 Wrong Marks: 0

Maximum concentration of hydroxyl radical in earth's atmosphere is observed at

- 1. The equator, in middle of troposphere
- 2. The poles, in middle of troposphere
- 3. The equatorial surface
- The Tropic of Cancer

Options:

646350114135. 1

646350114136. 2

646350114137.3

646350114138.4

Question Number: 150 Question Id: 64635029074 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Correct Marks: 2 Wrong Marks: 0

Maximum concentration of hydroxyl radical in earth's atmosphere is observed at

- The equator, in middle of troposphere
- 2. The poles, in middle of troposphere
- The equatorial surface
- 4. The Tropic of Cancer

Options:

646350114135.1

646350114136.2

646350114137.3