

National Testing Agency

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General Paper

Section Id :	93806613
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Sub-Section Number :	1
Sub-Section Id :	93806637
Question Shuffling Allowed :	No

Question Id : 938066825 Question Type : COMPREHENSION Sub Question Shuffling Allowed : Yes Group Comprehension Questions : No Question Pattern Type : NonMatrix
Question Numbers : (1 to 5)

The following table shows the number of students (Boys and Girls) and the percentage of girls who passed in a 10+2 examination from six different schools (A-F) in the year 2023 and 2024. Based on the data in the table, answer the questions that follow.

School-wise Details of Students Passing in a 10+2 examination

School	Year			
	2023		2024	
	Number of Passed Students	Percentage of Passed Girls	Number of Passed Students	Percentage of Passed Girls
A	500	46%	550	44%
B	600	42%	640	40%
C	650	56%	560	45%
D	720	60%	800	48%
E	600	54%	840	55%
F	650	50%	750	36%

Sub questions

Question Number : 1 Question Id : 938066826 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No
Correct Marks : 2 Wrong Marks : 0

What is the average number of boys who passed in the 10+2 examination in the year 2024 from all the six schools (A-F) together?

1. 376
2. 377
3. 378
4. 379

Options :

9380663201. 1
9380663202. 2
9380663203. 3
9380663204. 4

Question Number : 2 Question Id : 938066827 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No
Correct Marks : 2 Wrong Marks : 0

What is the ratio of the number of boys who passed from School A in 2023 to the number of girls who passed from School E in the year 2023?

1. 4 : 3
2. 5 : 4
3. 5 : 6
4. 6 : 7

Options :

9380663205. 1
9380663206. 2
9380663207. 3

Question Number : 3 Question Id : 938066828 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Correct Marks : 2 Wrong Marks : 0

For School F, the number of boys who passed in the year 2024 is approximately _____ % more than that in 2023.

1. 42.5
2. 47.7
3. 52.8
4. 57.5

Options :

9380663209. 1
9380663210. 2
9380663211. 3
9380663212. 4

Question Number : 4 Question Id : 938066829 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Correct Marks : 2 Wrong Marks : 0

The average number of girls who passed in the year 2024 from all the six schools is _____ % of the number of students who passed from School A in the year 2023.

1. 61.1
2. 62.2
3. 63.3
4. 64.4

Options :

9380663213. 1
9380663214. 2
9380663215. 3
9380663216. 4

Question Number : 5 Question Id : 938066830 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Correct Marks : 2 Wrong Marks : 0

Number of boys who passed in the examination is more than 300 in the year 2023 as well as in 2024 in only _____ schools.

1. two
2. three
3. four
4. five

Options :

9380663217. 1
9380663218. 2
9380663219. 3
9380663220. 4

निम्न तालिका में वर्ष 2023 व 2024 में छह भिन्न-भिन्न विद्यालयों (A-F) से 10+2 परीक्षा में उत्तीर्ण विद्यार्थियों (बालक व बालिकाओं) की संख्या और बालिकाओं का प्रतिशत दर्शाया गया है। तालिका में प्रदत्त डाटा के आधार पर आगे पूछे गए प्रश्नों के उत्तर दीजिए:

10+2 परीक्षा में उत्तीर्ण विद्यार्थियों का विद्यालय-वार विवरण

विद्यालय	वर्ष			
	2023		2024	
	उत्तीर्ण विद्यार्थियों की संख्या	उत्तीर्ण बालिकाओं का प्रतिशत	उत्तीर्ण विद्यार्थियों की संख्या	उत्तीर्ण बालिकाओं का प्रतिशत
A	500	46%	550	44%
B	600	42%	640	40%
C	650	56%	560	45%
D	720	60%	800	48%
E	600	54%	840	55%
F	650	50%	750	36%

Sub questions

Question Number : 1 Question Id : 938066826 Question Type : MCQ Option Shuffling : No Display Question
 Number : Yes Is Question Mandatory : No
 Correct Marks : 2 Wrong Marks : 0

सभी छह विद्यालयों (A-F) को मिलाकर वहां से वर्ष 2024 में 10+2 परीक्षा में उत्तीर्ण बालकों की औसत संख्या क्या है?

1. 376
2. 377
3. 378
4. 379

Options :

9380663201. 1
 9380663202. 2
 9380663203. 3
 9380663204. 4

Question Number : 2 Question Id : 938066827 Question Type : MCQ Option Shuffling : No Display Question
 Number : Yes Is Question Mandatory : No
 Correct Marks : 2 Wrong Marks : 0

वर्ष 2023 में विद्यालय A से उत्तीर्ण बालकों की संख्या का वर्ष 2023 में विद्यालय E से उत्तीर्ण बालिकाओं की संख्या से क्या अनुपात है?

1. 4 : 3
2. 5 : 4
3. 5 : 6
4. 6 : 7

Options :

9380663205. 1
9380663206. 2
9380663207. 3
9380663208. 4

Question Number : 3 Question Id : 938066828 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Correct Marks : 2 Wrong Marks : 0

विद्यालय F के लिए वर्ष 2024 में उत्तीर्ण बालकों की संख्या वर्ष 2023 में उत्तीर्ण बालकों की संख्या से लगभग _____ % अधिक है।

1. 42.5
2. 47.7
3. 52.8
4. 57.5

Options :

9380663209. 1
9380663210. 2
9380663211. 3
9380663212. 4

Question Number : 4 Question Id : 938066829 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Correct Marks : 2 Wrong Marks : 0

वर्ष 2024 में सभी छह विद्यालयों से उत्तीर्ण बालिकाओं की औसत संख्या वर्ष 2023 में विद्यालय A से उत्तीर्ण विद्यार्थियों की संख्या का _____ % है।

1. 61.1
2. 62.2
3. 63.3
4. 64.4

Options :

9380663213. 1
9380663214. 2
9380663215. 3
9380663216. 4

Question Number : 5 Question Id : 938066830 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Correct Marks : 2 Wrong Marks : 0

वर्ष 2023 और वर्ष 2024 में केवल _____ विद्यालयों में परीक्षा में उत्तीर्ण बालकों की संख्या 300 से अधिक है।

1. दो
2. तीन
3. चार
4. पांच

Options :

9380663217. 1

9380663218. 2

9380663219. 3

9380663220. 4

Sub-Section Number :

2

Sub-Section Id :

93806638

Question Shuffling Allowed :

Yes

Question Number : 6 Question Id : 938066831 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No

Correct Marks : 2 Wrong Marks : 0

The role of a teacher in supporting experiential learning can't be of a/ the _____.

1. Coach
2. Mentor
3. Tutor
4. Technology

Options :

9380663221. 1

9380663222. 2

9380663223. 3

9380663224. 4

Question Number : 6 Question Id : 938066831 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No

Correct Marks : 2 Wrong Marks : 0

अनुभवजन्य अधिगम में शिक्षक की भूमिका _____ की नहीं हो सकती।

1. शिक्षक (कोच)
2. परामर्शदाता (मेंटर)
3. अनुशिक्षक (ट्यूटर)
4. प्रौद्योगिकी (तकनीकी)

Options :

9380663221. 1

9380663222. 2

9380663223. 3

9380663224. 4

Question Number : 7 Question Id : 938066832 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No
Correct Marks : 2 Wrong Marks : 0

Which of the following is not considered as self-generated feedback?

1. Assurance
2. Previewing
3. Retracing
4. Observation

Options :

9380663225. 1
9380663226. 2
9380663227. 3
9380663228. 4

Question Number : 7 Question Id : 938066832 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No
Correct Marks : 2 Wrong Marks : 0

निम्नलिखित में से किसे स्व-उत्पन्न प्रतिपुष्टि नहीं माना जाता है?

1. आश्वासन
2. पूर्वदर्शन करना
3. प्रारंभ से अवलोकन
4. पर्यवेक्षण

Options :

9380663225. 1
9380663226. 2
9380663227. 3
9380663228. 4

Question Number : 8 Question Id : 938066833 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Correct Marks : 2 Wrong Marks : 0

Arrange the level of Bloom's Taxonomy from lower to higher order in the cognitive domain

- A. Analyzing
- B. Understanding
- C. Applying
- D. Evaluating
- E. Remembering

Choose the correct answer from the options given below:

- 1. B, E, C, A, D
- 2. E, B, C, A, D
- 3. E, B, C, D, A
- 4. E, B, D, A, C

Options :

- 9380663229. 1
- 9380663230. 2
- 9380663231. 3
- 9380663232. 4

Question Number : 8 Question Id : 938066833 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Correct Marks : 2 Wrong Marks : 0

ब्लूम टेक्सोनॉमी के स्तर को संज्ञानात्मक क्षेत्र में नीचे से ऊपर के क्रम में व्यवस्थित कीजिए:

- A. विश्लेषण करना
- B. समझना
- C. प्रयोग में लाना
- D. मूल्यांकन करना
- E. स्मरण करना

नीचे दिए गए विकल्पों में से सही उत्तर चुने:

- 1. B, E, C, A, D
- 2. E, B, C, A, D
- 3. E, B, C, D, A
- 4. E, B, D, A, C

Options :

- 9380663229. 1
- 9380663230. 2
- 9380663231. 3
- 9380663232. 4

Question Number : 9 Question Id : 938066834 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No
Correct Marks : 2 Wrong Marks : 0

What among the following are known as Assessment Instruments?

- A. Tests
- B. Examinations
- C. Rubrics
- D. Worksheets
- E. Quizzes

Choose the correct answer from the options given below:

- 1. A, B and E Only
- 2. B, C, D and E Only
- 3. D and E Only
- 4. A, B, D and E Only

Options :

- 9380663233. 1
- 9380663234. 2
- 9380663235. 3
- 9380663236. 4

Question Number : 9 Question Id : 938066834 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No
Correct Marks : 2 Wrong Marks : 0

निम्नलिखित में से किसे आंकलन का साधन माना जाता है?

- A. टेस्ट
- B. परीक्षायें
- C. निर्देशन
- D. वर्कशीटें
- E. प्रश्नोत्तरियाँ

नीचे दिए गए विकल्पों में से सही उत्तर चुने:

- 1. केवल A, B और E
- 2. केवल B, C, D और E
- 3. केवल D और E
- 4. केवल A, B, D और E

Options :

- 9380663233. 1
- 9380663234. 2
- 9380663235. 3
- 9380663236. 4

Question Number : 10 Question Id : 938066835 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Correct Marks : 2 Wrong Marks : 0

Match the **LIST-I** with **LIST-II**

LIST-I (Principle)		LIST-II (Implication)	
A.	Encouraging student's deep approaches to learning objectives	I.	Feed back should be embedded within assessment practices.
B.	The summative and formative assessments to be learning oriented	II.	Task design should be approached from a program-wide perspective.
C.	Facilitating dialogic forms of feed back	III.	Greater sense of ownership by students
D.	Involving some personal student investment	IV.	A variety of assessment for student motivation.

Choose the *correct* answer from the options given below:

1. A-I, B-II, C-III, D-IV
2. A-II, B-IV, C-I, D-III
3. A-IV, B-II, C-III, D-I
4. A-III, B-I, C-II, D-IV

Options :

9380663237. 1
9380663238. 2
9380663239. 3
9380663240. 4

Question Number : 10 Question Id : 938066835 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Correct Marks : 2 Wrong Marks : 0

सूची-I के साथ सूची-II का मिलान कीजिए:

सूची-I (सिद्धांत)		सूची-II (आशय)	
A.	अधिगम उद्देश्यों के प्रति छात्रों की गहन अभिवृत्ति को प्रोत्साहित करना	I.	आंकलन प्रथाओं के भीतर ही प्रतिपुष्टि शामिल की जानी चाहिए
B.	संकलनात्मक और निर्माणात्मक आंकलन अधिगम-उन्मुख होने चाहिए	II.	कर्यक्रम- विस्तार परिप्रेक्ष्य से कार्य डिजाइन तक पहुँचा जाना चाहिए
C.	प्रतिपुष्टियों को संवाद-रूप में सुकर बनाना	III.	छात्रों द्वारा स्वामित्व की अधिक भावना
D.	कुछ व्यक्तिगत छात्र निवेश को शामिल करना	IV.	छात्रों के अभिप्रेरण के लिए विविध प्रकार के आंकलन

नीचे दिए गए विकल्पों में से सही उत्तर का चयन कीजिए :

1. A-I, B-II, C-III, D-IV
2. A-II, B-IV, C-I, D-III
3. A-IV, B-II, C-III, D-I
4. A-III, B-I, C-II, D-IV

Options :

9380663237. 1
9380663238. 2
9380663239. 3
9380663240. 4

Question Number : 11 Question Id : 938066836 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Correct Marks : 2 Wrong Marks : 0

What is not a Research?

1. Research is a careful and exhaustive investigation of a phenomenon with an objective of advancing knowledge.
2. It is a systematic and objective attempt to study a problem for the purpose of deriving general principles.
3. Research is based on common sense knowledge, based on the accumulated experiences and beliefs of the people.
4. It is a systematic investigation to find solutions to a problem.

Options :

9380663241. 1
9380663242. 2
9380663243. 3
9380663244. 4

Question Number : 11 Question Id : 938066836 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Correct Marks : 2 Wrong Marks : 0

निम्न में से क्या शोध नहीं है?

1. शोध ज्ञान के उन्नयन के उद्देश्य से किसी परिघटना की सावधानीपूर्वक व विस्तृत जांच होता है।
2. यह सामान्य सिद्धांत निगमित करने के उद्देश्य हेतु समस्या के अध्ययन के लिए व्यवस्थित और वस्तुपरक प्रयास होता है।
3. शोध सहज बुद्धि ज्ञान पर आधारित होता है, लोगों के संचित अनुभवों व विश्वासों पर आधारित होता है।
4. यह समस्या के समाधान की खोज हेतु, सुव्यवस्थित जांच होता है।

Options :

- 9380663241. 1
- 9380663242. 2
- 9380663243. 3
- 9380663244. 4

Question Number : 12 Question Id : 938066837 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Correct Marks : 2 Wrong Marks : 0

Scientific Observations are based on _____.

1. Verifiable evidence or systematic body of proof that can be cited.
2. Accumulated experiences
3. Prejudices
4. Beliefs of the people

Options :

- 9380663245. 1
- 9380663246. 2
- 9380663247. 3
- 9380663248. 4

Question Number : 12 Question Id : 938066837 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Correct Marks : 2 Wrong Marks : 0

वैज्ञानिक प्रेक्षण निम्न में से किस पर आधारित होता है?

1. सत्यापन योग्य साक्ष्य अथवा उद्धरण योग्य सबूत का सुव्यवस्थित निकाय
2. संचित अनुभव
3. पूर्वग्रह
4. जन विश्वास

Options :

- 9380663245. 1
- 9380663246. 2
- 9380663247. 3
- 9380663248. 4

Question Number : 13 Question Id : 938066838 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No

Correct Marks : 2 Wrong Marks : 0

For different sets of datasets X and Y, correlation coefficient between X and Y, that is R and standard deviation of X and Y, that is, S(X) and S(Y) are given in A-D below. Estimate the covariance between X and Y for each dataset and arrange in ascending order.

- A. $R = 0.5$, $S(X) = 8$, $S(Y) = 10$
- B. $R = 4/7$, $S(X) = 7$, $S(Y) = 9$
- C. $R = 0.7$, $S(X) = 12$, $S(Y) = 5$
- D. $R = 19/42$, $S(X) = 14$, $S(Y) = 6$

Choose the correct answer from the options given below:

- 1. B, A, D, C
- 2. C, B, A, D
- 3. B, D, A, C
- 4. A, C, D, B

Options :

- 9380663249. 1
- 9380663250. 2
- 9380663251. 3
- 9380663252. 4

Question Number : 13 Question Id : 938066838 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No

Correct Marks : 2 Wrong Marks : 0

डाटासेटों के भिन्न-भिन्न समुच्चयों X व Y हेतु, X व Y का सहसंबंध गुणांक अर्थात् R, और X व Y का मानक विचलन अर्थात् S(X) and S(Y) नीचे दिया गया है। प्रत्येक डाटा सेट हेतु X व Y के बीच के सहप्रसरण का आकलन कीजिए और उसे आरोही क्रम में व्यवस्थित कीजिए:

- A. $R = 0.5$, $S(X) = 8$, $S(Y) = 10$
- B. $R = 4/7$, $S(X) = 7$, $S(Y) = 9$
- C. $R = 0.7$, $S(X) = 12$, $S(Y) = 5$
- D. $R = 19/42$, $S(X) = 14$, $S(Y) = 6$

नीचे दिए गए विकल्पों में से सही उत्तर चुने:

- 1. B, A, D, C
- 2. C, B, A, D
- 3. B, D, A, C
- 4. A, C, D, B

Options :

- 9380663249. 1
- 9380663250. 2
- 9380663251. 3
- 9380663252. 4

Question Number : 14 Question Id : 938066839 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Correct Marks : 2 Wrong Marks : 0

Criteria for Hypotheses construction are

- A. It should describe one issue only.
- B. It should describe many issues.
- C. It should specify variables between which the relationship is to be established.
- D. It should be specific and precise.
- E. It should be empirically testable, whether it is right or wrong.

Choose the correct answer from the options given below:

- 1. B Only
- 2. A, B and C Only
- 3. A, C, D and E Only
- 4. A, B, C and D Only

Options :

- 9380663253. 1
- 9380663254. 2
- 9380663255. 3
- 9380663256. 4

Question Number : 14 Question Id : 938066839 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Correct Marks : 2 Wrong Marks : 0

प्राक्कल्पना रचना हेतु मानदंड हैं:

- A. इसे केवल एक मामले का वर्णन करना चाहिए।
- B. इसे अनेक मामलों का वर्णन करना चाहिए।
- C. इसे उन चरों को विनिर्दिष्ट करना चाहिए जिनके बीच संबंध स्थापित किया जाना है।
- D. इसे स्पष्ट और सुनिश्चित होना चाहिए।
- E. यह आनुभविक रूप से जांच योग्य होना चाहिए चाहे यह सही हो अथवा गलत।

नीचे दिए गए विकल्पों में से सही उत्तर चुने:

- 1. केवल B
- 2. केवल A, B और C
- 3. केवल A, C, D और E
- 4. केवल A, B, C और D

Options :

- 9380663253. 1
- 9380663254. 2
- 9380663255. 3
- 9380663256. 4

Question Number : 15 Question Id : 938066840 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Correct Marks : 2 Wrong Marks : 0

Match the **LIST-I** with **LIST-II**

LIST-I (Concepts)		LIST-II (Meanings)	
A.	Theory	I.	Generalized representations of a system or an object, that is constructed to some aspects of that system or the system as a whole.
B.	Model	II.	Research problem is represented by a mathematical model.
C.	Survey	III.	It is a set of systematically interrelated propositions that explain and predict a phenomenon or a fact.
D.	Modeling	IV.	It is a data collection technique using a questionnaire.

Choose the *correct* answer from the options given below:

- 1. A-I, B-II, C-III, D-IV
- 2. A-IV, B-III, C-II, D-I
- 3. A-II, B-III, C-IV, D-I
- 4. A-III, B-I, C-IV, D-II

Options :

- 9380663257. 1
- 9380663258. 2
- 9380663259. 3
- 9380663260. 4

Question Number : 15 Question Id : 938066840 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Correct Marks : 2 Wrong Marks : 0

सूची-I के साथ सूची-II का मिलान कीजिए:

सूची-I (अवधारणाएं)		सूची-II (अर्थ)	
A.	सिद्धांत	I.	किसी तंत्र या वस्तु का सामान्यीकृत निरूपण, जो उस तंत्र के कुछ पहलुओं या समग्र तंत्र के अनुरूप रचित है।
B.	निदर्श/ प्रतिरूप	II.	शोध समस्या को एक गणितीय निदर्श के द्वारा निरूपित किया गया है।
C.	सर्वेक्षण	III.	यह एक व्यवस्थित ढंग से अन्तः सम्बन्धित प्रस्थापनाओं का समुच्चय है जो किसी परिघटना या तथ्य को व्याख्यायित या अनुमानित करता है।
D.	निदर्शन/ प्रतिरूपण	IV.	यह किसी प्रश्नावली का उपयोग करके डाटा संग्रहण की एक तकनीक है।

नीचे दिए गए विकल्पों में से सही उत्तर का चयन कीजिए :

1. A-I, B-II, C-III, D-IV
2. A-IV, B-III, C-II, D-I
3. A-II, B-III, C-IV, D-I
4. A-III, B-I, C-IV, D-II

Options :

9380663257. 1
9380663258. 2
9380663259. 3
9380663260. 4

Question Number : 16 Question Id : 938066841 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Correct Marks : 2 Wrong Marks : 0

When a person is talking to himself/ herself or contemplating or dreaming while in sleep, then this type of communication is known as

1. Inter-personal
2. Intra-personal
3. Inter-cultural
4. Inter-national

Options :

9380663261. 1
9380663262. 2
9380663263. 3
9380663264. 4

Question Number : 16 Question Id : 938066841 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Correct Marks : 2 Wrong Marks : 0

जब कोई व्यक्ति स्वयं से बात कर रहा होता है अथवा निद्रावस्था में सोच अथवा स्वप्न देख रहा होता है, तो इस प्रकार का संचार निम्न रूप से जाना जाता है_____

1. अंतर्वैयक्तिक
2. अन्तःवैयक्तिक
3. अंतर्सांस्कृतिक
4. अंतर्राष्ट्रीय

Options :

9380663261. 1
9380663262. 2
9380663263. 3
9380663264. 4

Question Number : 17 Question Id : 938066842 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Correct Marks : 2 Wrong Marks : 0

If the sender has not formulated the idea, thought or message in proper manner, it can result into a barrier in communication. The barrier occurs at what level?

1. Transmission stage
2. At the end of the decoder
3. At the level of the encoder
4. Technical stage

Options :

9380663265. 1
9380663266. 2
9380663267. 3
9380663268. 4

Question Number : 17 Question Id : 938066842 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Correct Marks : 2 Wrong Marks : 0

यदि प्रेषक ने विचार, सोच अथवा संदेश का समुचित रूप से निरूपण नहीं किया है तो यह संचार में अवरोध बन सकता है। यह अवरोध किस स्तर पर हो सकता है?

1. संचरण चरण
2. विसंकेतक के अंत में
3. संकेतक के स्तर पर
4. तकनीकी चरण

Options :

9380663265. 1
9380663266. 2
9380663267. 3
9380663268. 4

Question Number : 18 Question Id : 938066843 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Correct Marks : 2 Wrong Marks : 0

As of February 28, 2025, write the highest grossing Indian films starting from highest grossing to the lowest grossing.

- A. Bahubali-2
- B. RRR
- C. Pushpa-2
- D. KGF- Chapter 2
- E. Dangal

Choose the correct answer from the options given below:

- 1. E, A, C, B, D
- 2. A, B, C, D, E
- 3. B, A, D, E, C
- 4. D, B, C, A, E

Options :

- 9380663269. 1
- 9380663270. 2
- 9380663271. 3
- 9380663272. 4

Question Number : 18 Question Id : 938066843 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Correct Marks : 2 Wrong Marks : 0

28 फरवरी, 2025 की स्थिति अनुसार निम्न भारतीय फिल्मों में से उच्चतम से न्यूनतम आय करने वाली फिल्मों का सही क्रम क्या है?

- A. बाहुबली- 2
- B. आर आर आर
- C. पुष्पा-2
- D. के जी एफ- चैप्टर 2
- E. दंगल

नीचे दिए गए विकल्पों में से सही उत्तर चुने:

- 1. E, A, C, B, D
- 2. A, B, C, D, E
- 3. B, A, D, E, C
- 4. D, B, C, A, E

Options :

- 9380663269. 1
- 9380663270. 2
- 9380663271. 3
- 9380663272. 4

Question Number : 19 Question Id : 938066844 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Correct Marks : 2 Wrong Marks : 0

What among the following are some media organisations?

- A. Registrar of Newspaper for India (RNI)
- B. National Institute of Fashion Technology (NIFT)
- C. The Press Council of India (PCI)
- D. Audit Bureau of Circulation Ltd (ABC)
- E. University School of Mass Communication (USMC)

Choose the correct answer from the options given below:

- 1. B and E Only
- 2. A and B Only
- 3. A, C and D Only
- 4. A, B and C Only

Options :

- 9380663273. 1
- 9380663274. 2
- 9380663275. 3
- 9380663276. 4

Question Number : 19 Question Id : 938066844 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Correct Marks : 2 Wrong Marks : 0

निम्न में से कौन-कौन मीडिया संगठन हैं?

- A. भारत के समाचार पत्र पंजीयक (आर एन आई)
- B. राष्ट्रीय फैशन प्रौद्योगिकी संस्थान (एन आई एफ टी)
- C. भारतीय प्रेस परिषद (पी सी आई)
- D. ऑडिट ब्यूरो ऑफ़ सर्कुलेशन लि. (ए बी सी)
- E. यूनिवर्सिटी स्कूल ऑफ़ मास कम्युनिकेशन (यू एस एम सी)

नीचे दिए गए विकल्पों में से सही उत्तर चुने:

- 1. केवल B और E
- 2. केवल A और B
- 3. केवल A, C और D
- 4. केवल A, B और C

Options :

- 9380663273. 1
- 9380663274. 2
- 9380663275. 3
- 9380663276. 4

Question Number : 20 Question Id : 938066845 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Correct Marks : 2 Wrong Marks : 0

Match the **LIST-I** with **LIST-II**

LIST-I (Films)		LIST-II (Year of release)	
A.	Mugle Azam	I.	1975
B.	Sholay	II.	1973
C.	Bobby	III.	1989
D.	Maine Pyar Kiya	IV.	1960

Choose the *correct* answer from the options given below:

1. A-I, B-II, C-III, D-IV
2. A-IV, B-I, C-II, D-III
3. A-IV, B-III, C-II, D-I
4. A-III, B-II, C-IV, D-I

Options :

9380663277. 1
9380663278. 2
9380663279. 3
9380663280. 4

Question Number : 20 Question Id : 938066845 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Correct Marks : 2 Wrong Marks : 0

सूची-I के साथ सूची-II का मिलान कीजिए:

सूची-I (फ़िल्में)		सूची-II (जारी होने का वर्ष)	
A.	मुगले आज़म	I.	1975
B.	शोले	II.	1973
C.	बॉबी	III.	1989
D.	मेने प्यार किया	IV.	1960

नीचे दिए गए विकल्पों में से सही उत्तर का चयन कीजिए :

1. A-I, B-II, C-III, D-IV
2. A-IV, B-I, C-II, D-III
3. A-IV, B-III, C-II, D-I
4. A-III, B-II, C-IV, D-I

Options :

9380663277. 1
9380663278. 2
9380663279. 3
9380663280. 4

Question Number : 21 Question Id : 938066846 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Correct Marks : 2 Wrong Marks : 0

Find the wrong term in the series given below:
3, 12, 36, 144, 432, 1738, 5184

1. 12
2. 432
3. 1738
4. 5184

Options :

- 9380663281. 1
- 9380663282. 2
- 9380663283. 3
- 9380663284. 4

Question Number : 21 Question Id : 938066846 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Correct Marks : 2 Wrong Marks : 0

निम्नशृंखला में गलत संख्या का पता लगाएं:
3, 12, 36, 144, 432, 1738, 5184

1. 12
2. 432
3. 1738
4. 5184

Options :

- 9380663281. 1
- 9380663282. 2
- 9380663283. 3
- 9380663284. 4

Question Number : 22 Question Id : 938066847 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Correct Marks : 2 Wrong Marks : 0

In a certain code language 'GERMANY' is coded as 9, 7, 20, 15, 3, 16, 27. How 'FRANCE' will be coded in this language?

1. 7, 19, 2, 15, 4, 6
2. 8, 20, 30, 16, 5, 7
3. 8, 20, 3, 16, 5, 7
4. 6, 18, 1, 14, 3, 5

Options :

- 9380663285. 1
- 9380663286. 2
- 9380663287. 3
- 9380663288. 4

Question Number : 22 Question Id : 938066847 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Correct Marks : 2 Wrong Marks : 0

कतिपय भाषा में 'GERMANY' को 9, 7, 20, 15, 3, 16, 27 के रूप में कूटबद्ध किया गया है। तो उपयुक्त भाषा में 'FRANCE' को कैसे कूटबद्ध किया जाएगा?

1. 7, 19, 2, 15, 4, 6
2. 8, 20, 30, 16, 5, 7
3. 8, 20, 3, 16, 5, 7
4. 6, 18, 1, 14, 3, 5

Options :

9380663285. 1
9380663286. 2
9380663287. 3
9380663288. 4

Question Number : 23 Question Id : 938066848 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Correct Marks : 2 Wrong Marks : 0

The interest earned on ₹ 8000 when invested in some scheme for 2 years at 7 % simple interest, per annum is half of the interest earned on another amount P invested for five years in the same scheme at the same rate of interest. Find the value of P.

1. ₹ 6200
2. ₹ 6000
3. ₹ 6400
4. ₹ 5000

Options :

9380663289. 1
9380663290. 2
9380663291. 3
9380663292. 4

Question Number : 23 Question Id : 938066848 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Correct Marks : 2 Wrong Marks : 0

किसी योजना में 2 वर्ष के लिए प्रतिवर्ष 7% के साधारण ब्याज पर निवेश की गई धनराशि ₹ 8000 पर अर्जित ब्याज इसी योजना में 5 वर्ष के लिए उसे ब्याज दर पर निवेश की गई अन्य धनराशि P पर अर्जित ब्याज का आधा है। तो धनराशि P का मूल्य ज्ञात कीजिए।

1. ₹ 6200
2. ₹ 6000
3. ₹ 6400
4. ₹ 5000

Options :

9380663289. 1
9380663290. 2
9380663291. 3
9380663292. 4

Question Number : 24 Question Id : 938066849 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No
Correct Marks : 2 Wrong Marks : 0

Which of the following statement(s) is/are true?

- A. Speed of x m/sec is equal to $x \frac{5}{18}$ km/hr.
- B. If a train runs at $\frac{5}{6}$ of its usual speed, it gets late by 10 minutes. The usual time of the train to cover the journey is 40 minutes.
- C. A car moves at the speed of 80 Km/hr. The speed of the car in meters per second is $22\frac{2}{9}$.
- D. A person crosses a 600 m long street in 5 minutes. The speed of the person in Km per hour is 7.2.

Choose the correct answer from the options given below:

- 1. A, B and C Only
- 2. A and B Only
- 3. B, C and D Only
- 4. C and D Only

Options :

- 9380663293. 1
- 9380663294. 2
- 9380663295. 3
- 9380663296. 4

Question Number : 24 Question Id : 938066849 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Correct Marks : 2 Wrong Marks : 0

निम्न में से कौन सा/से कथन सही है?

- A. x मी./से. की गति $x \frac{5}{18}$ कि.मी./घंटे के बराबर है
- B. यदि कोई रेलगाड़ी अपनी सामान्य गति के $\frac{5}{6}$ रफ्तार से चलती है तो इसे 10 मिनट की देरी होती है। उस यात्रा को पूरा करने में रेलगाड़ी को सामान्यता 40 मिनट का समय लगता है।
- C. एक कार 80 कि.मी./घंटे की गति से चलती है। कार की गति मीटर प्रति सेकंड में $22\frac{2}{9}$ है।
- D. एक व्यक्ति 600 मीटर लंबी गली को 5 मिनट में पूरा करता है। उस व्यक्ति की गति कि.मी. प्रति घंटे में 7.2 है।

नीचे दिए गए विकल्पों में से सही उत्तर चुने:

1. केवल A, B और C
2. केवल A और B
3. केवल B, C और D
4. केवल C और D

Options :

9380663293. 1
9380663294. 2
9380663295. 3
9380663296. 4

Question Number : 25 Question Id : 938066850 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Correct Marks : 2 Wrong Marks : 0

A person takes a loan of ₹ 5000 at 5% simple interest. He returns ₹ 3000 at the end of one year. How much he would have to pay, in order to clear his dues, at the end of 2 years?

1. ₹ 2450
2. ₹ 2500
3. ₹ 2350
4. ₹ 2400

Options :

9380663297. 1
9380663298. 2
9380663299. 3
9380663300. 4

Question Number : 25 Question Id : 938066850 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Correct Marks : 2 Wrong Marks : 0

कोई व्यक्ति 5% साधारण ब्याज पर ऋण लेता है। वह एक वर्ष बाद उसे ₹ 3000 लौटाता है। 2 वर्ष के अन्त में उसे देय धन चुकाने के लिए कितनी धनराशि देनी होगी?

1. ₹ 2450
2. ₹ 2500
3. ₹ 2350
4. ₹ 2400

Options :

9380663297. 1
9380663298. 2
9380663299. 3
9380663300. 4

Question Number : 26 Question Id : 938066851 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Correct Marks : 2 Wrong Marks : 0

Which fallacy is committed in the following statement- "I can expect that you would not find any moral issue in making abortion illegal, since your ability to feel sympathy for the rights of women in general is very limited?"

1. Begging the question
2. Ad Hominem
3. Hasty generalisation
4. Slippery slope

Options :

9380663301. 1
9380663302. 2
9380663303. 3
9380663304. 4

Question Number : 26 Question Id : 938066851 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Correct Marks : 2 Wrong Marks : 0

निम्नलिखित कथन में कौन-सा तर्कदोष विद्यमान है-

“मैं अपेक्षा कर सकता हूँ कि गर्भपात को गैर क़ानूनी बनाने में आपको कुछ अनैतिक नहीं लगेगा, क्योंकि महिलाओं के अधिकारों के लिए सहानुभूति महसूस करने की आपकी क्षमता आमतौर पर बहुत सीमित है”?

1. आत्माश्रय दोष
2. व्यक्ति पर आघात
3. अविचारित सामान्यीकरण
4. फिसलनयुक्त ढलान

Options :

9380663301. 1
9380663302. 2
9380663303. 3
9380663304. 4

Question Number : 27 Question Id : 938066852 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Correct Marks : 2 Wrong Marks : 0

Which of the following statements are logically equivalent?

- A. No soaps are writing-tools.
- B. All soaps are non-writing-tools.
- C. No non-writing-tools are soaps.
- D. No writing-tools are soaps.

Choose the correct answer from the options given below:

1. A and D Only
2. A, B and D Only
3. B and C Only
4. A and C Only

Options :

9380663305. 1
9380663306. 2
9380663307. 3
9380663308. 4

Question Number : 27 Question Id : 938066852 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Correct Marks : 2 Wrong Marks : 0

निम्नलिखित में से कौन-से कथन तार्किक दृष्टि से समान हैं?

- A. कोई भी साबुन लेखन-उपकरण नहीं होता है।
- B. सभी साबुन गैर-लेखन उपकरण होते हैं।
- C. कोई भी गैर-लेखन उपकरण साबुन नहीं होता है।
- D. कोई भी लेखन उपकरण साबुन नहीं होता है।

नीचे दिए गए विकल्पों में से सही उत्तर चुने:

- 1. केवल A और D
- 2. केवल A, B और D
- 3. केवल B और C
- 4. केवल A और C

Options :

- 9380663305. 1
- 9380663306. 2
- 9380663307. 3
- 9380663308. 4

Question Number : 28 Question Id : 938066853 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Correct Marks : 2 Wrong Marks : 0

Which of the following propositions are so related that they cannot both be false, though they can both be true?

- A. Some poems are artworks.
- B. All poems are artworks.
- C. Some poems are not artworks.
- D. Some artworks are poems.

Choose the correct answer from the options given below:

- 1. A and D Only
- 2. A and C Only
- 3. B and C Only
- 4. A and B Only

Options :

- 9380663309. 1
- 9380663310. 2
- 9380663311. 3
- 9380663312. 4

Question Number : 28 Question Id : 938066853 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Correct Marks : 2 Wrong Marks : 0

निम्नलिखित में से कौन-सी प्रतिज्ञप्तियाँ इस प्रकार संबंधित हैं कि वे दोनों असत्य नहीं हो सकतीं, हालाँकि वे दोनों सत्य हो सकती हैं?

- A. कुछ कविताएँ कलाकृतियाँ होती हैं।
- B. सभी कविताएँ कलाकृतियाँ होती हैं।
- C. कुछ कविताएँ कलाकृतियाँ नहीं होती हैं।
- D. कुछ कलाकृतियाँ कविताएँ होती हैं।

नीचे दिए गए विकल्पों में से सही उत्तर चुने:

- 1. केवल A और D
- 2. केवल A और C
- 3. केवल B और C
- 4. केवल A और B

Options :

- 9380663309. 1
- 9380663310. 2
- 9380663311. 3
- 9380663312. 4

Question Number : 29 Question Id : 938066854 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Correct Marks : 2 Wrong Marks : 0

Arrange the following terms in order of increasing denotation.

- A. Chess
- B. Board games
- C. Sports
- D. Indoor games

Choose the correct answer from the options given below:

- 1. A, B, C, D
- 2. C, D, A, B
- 3. C, D, B, A
- 4. A, B, D, C

Options :

- 9380663313. 1
- 9380663314. 2
- 9380663315. 3
- 9380663316. 4

Question Number : 29 Question Id : 938066854 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Correct Marks : 2 Wrong Marks : 0

निम्नलिखित पद को बढ़ते वस्त्वर्थ के क्रम में व्यवस्थित कीजिए:

- A. शतरंज
- B. बोर्ड गेम्स
- C. खेलकूद
- D. इनडोर गेम्स

नीचे दिए गए विकल्पों में से सही उत्तर चुने:

- 1. A, B, C, D
- 2. C, D, A, B
- 3. C, D, B, A
- 4. A, B, D, C

Options :

- 9380663313. 1
- 9380663314. 2
- 9380663315. 3
- 9380663316. 4

Question Number : 30 Question Id : 938066855 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Correct Marks : 2 Wrong Marks : 0

"The world is an effect and hence it must have an efficient and intelligent cause. That efficient and intelligent cause is God." Which means of knowledge is used in this argument as per classical Indian School of Logic (Nyāya)?

- 1. Perception
- 2. Inference
- 3. Analogy
- 4. Verbal authority

Options :

- 9380663317. 1
- 9380663318. 2
- 9380663319. 3
- 9380663320. 4

Question Number : 30 Question Id : 938066855 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Correct Marks : 2 Wrong Marks : 0

“विश्व एक परिणाम है और इसलिए इसका फलोत्पादक और बौद्धिक कारण होना चाहिए। वह फलोत्पादक और बौद्धिक कारण ईश्वर है” इस युक्ति में प्राचीन भारतीय तर्कशास्त्र मत (न्याय) के अनुसार ज्ञान के किस साधन का प्रयोग किया जाता है?

1. प्रत्यक्ष
2. अनुमान
3. उपमान
4. मौखिक सत्ता

Options :

9380663317. 1
9380663318. 2
9380663319. 3
9380663320. 4

Question Number : 31 Question Id : 938066856 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Correct Marks : 2 Wrong Marks : 0

In _____, each communicating device is connected with every other device in the computer network.

1. Star topology
2. Mesh topology
3. Bus topology
4. Ring topology

Options :

9380663321. 1
9380663322. 2
9380663323. 3
9380663324. 4

Question Number : 31 Question Id : 938066856 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Correct Marks : 2 Wrong Marks : 0

_____ में सूचना प्रदान करने वाला प्रत्येक उपकरण कंप्यूटर नेटवर्क में प्रत्येक अन्य उपकरण से जुड़ा होता है।

1. स्टार टोपोलॉजी
2. मेश टोपोलॉजी
3. बस टोपोलॉजी
4. रिंग टोपोलॉजी

Options :

9380663321. 1
9380663322. 2
9380663323. 3
9380663324. 4

Question Number : 32 Question Id : 938066857 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Correct Marks : 2 Wrong Marks : 0

Which of the following is not a web browser?

1. Opera
2. Safari
3. Firefox
4. Google

Options :

9380663325. 1
9380663326. 2
9380663327. 3
9380663328. 4

Question Number : 32 Question Id : 938066857 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Correct Marks : 2 Wrong Marks : 0

निम्नलिखित में से कौन-सा वेब ब्राउजर नहीं है?

1. ओपेरा
2. सफारी
3. फायरफ़ॉक्स
4. गूगल

Options :

9380663325. 1
9380663326. 2
9380663327. 3
9380663328. 4

Question Number : 33 Question Id : 938066858 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No
Correct Marks : 2 Wrong Marks : 0

Identify the sequence of appropriate words A-D that correctly fills the blanks in the following paragraph:

Radio _____ Identification Systems use radio waves to read and capture information stored on a tag, which can be read from several metres away. The _____ is made up of a(n) _____ to store and process data, and a(n) _____ to receive and transmit data.

- A. tag
- B. frequency
- C. antenna
- D. microchip

Choose the correct answer from the options given below:

- 1. B, D, A, C
- 2. C, A, D, B
- 3. B, A, D, C
- 4. A, C, B, D

Options :

- 9380663329. 1
- 9380663330. 2
- 9380663331. 3
- 9380663332. 4

Question Number : 33 Question Id : 938066858 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Correct Marks : 2 Wrong Marks : 0

A से D तक के शब्दों के अनुक्रम की पहचान कीजिए जिनसे निम्नलिखित पैराग्राफ में रिक्त स्थानों को सही रूप में भरा जाता है:

किसी टैग में एकत्रित सूचनाओं को पढ़ने और प्राप्त करने के लिए रेडियो _____ आइडेंटिफिकेशन सिस्टम में रेडियो वेव्स का प्रयोग किया जाता है, जिन्हें कई मीटर दूर से पढ़ा जा सकता है। यह _____ डेटा का भंडारण और प्रक्रमण करने के लिए _____ से बना है और डेटा को प्राप्त करने और प्रेषित करने के लिए _____ से बना है।

- A. टैग
- B. फ्रीक्वेंसी
- C. एंटेना
- D. माइक्रोचिप

नीचे दिए गए विकल्पों में से सही उत्तर चुने:

- 1. B, D, A, C
- 2. C, A, D, B
- 3. B, A, D, C
- 4. A, C, B, D

Options :

- 9380663329. 1
- 9380663330. 2
- 9380663331. 3
- 9380663332. 4

Question Number : 34 Question Id : 938066859 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Correct Marks : 2 Wrong Marks : 0

Which of following statements are correct?

- A. Worm can be hardware and software.
- B. Cookies are used to store browsing information.
- C. Sandbox detection is malware identification method.
- D. HTTP has better security than HTTPS.
- E. Trojan is an antivirus.

Choose the correct answer from the options given below:

- 1. A, B and C Only
- 2. C and E Only
- 3. B and C Only
- 4. B and D Only

Options :

- 9380663333. 1
- 9380663334. 2
- 9380663335. 3
- 9380663336. 4

Question Number : 34 Question Id : 938066859 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No
Correct Marks : 2 Wrong Marks : 0

निम्नलिखित में से कौन-से कथन सत्य हैं?

- A. वर्म हार्डवेयर और सॉफ्टवेयर हो सकते हैं।
- B. ब्राउजिंग जानकारी का भंडारण करने के लिए कुकीज का प्रयोग किया जाता है।
- C. सैंडबॉक्स को ढूँढना, मालवेयर पहचान करने की पद्धति है।
- D. एच टी टी पी में एच टी टी पी एस से बेहतर सुरक्षा है।
- E. ट्रोजन एक एंटीवायरस है।

नीचे दिए गए विकल्पों में से सही उत्तर चुने:

- 1. केवल A, B और C
- 2. केवल C और E
- 3. केवल B और C
- 4. केवल B और D

Options :

9380663333. 1

9380663334. 2

9380663335. 3

9380663336. 4

Question Number : 35 Question Id : 938066860 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Correct Marks : 2 Wrong Marks : 0

Match the **LIST-I** with **LIST-II**

LIST-I (Recognition System)		LIST-II (Application)	
A.	MICR	I.	Reading the car number plates
B.	OCR	II.	Capturing product information so that it can be added to the customer's purchase total
C.	OMR	III.	Reading the numbers found on a bank cheque
D.	Barcode Reader	IV.	Reading marks written using pencil or pen on a specially printed paper.

Choose the *correct* answer from the options given below:

- 1. A-IV, B-I, C-III, D-II
- 2. A-II, B-I, C-IV, D-III
- 3. A-III, B-IV, C-I, D-II
- 4. A-III, B-I, C-IV, D-II

Options :

- 9380663337. 1
- 9380663338. 2
- 9380663339. 3
- 9380663340. 4

Question Number : 35 Question Id : 938066860 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Correct Marks : 2 Wrong Marks : 0

सूची-I के साथ सूची-II का मिलान कीजिए:

सूची-I (रिकार्डिंग सिस्टम)		सूची-II (एप्लीकेशन)	
A.	एम आई सी आर	I.	कारों की नम्बर प्लेटों को पढ़ना
B.	ओ सी आर	II.	प्रोडक्ट संबंधी सूचनाएँ प्राप्त करना ताकि इसे ग्राहकों के कुल खरीद बिल में शामिल किया जा सके।
C.	ओ एम आर	III.	किसी बैंक के चेक पर पाई जाने वाली संख्याओं को पढ़ना
D.	बारकोड रीडर	IV.	पेन्सिल या पेन का प्रयोग कर विशेष रूप से मुद्रित कागज पर लिखे गए चिह्नों को पढ़ना

नीचे दिए गए विकल्पों में से सही उत्तर का चयन कीजिए :

1. A-IV, B-I, C-III, D-II
2. A-II, B-I, C-IV, D-III
3. A-III, B-IV, C-I, D-II
4. A-III, B-I, C-IV, D-II

Options :

- 9380663337. 1
- 9380663338. 2
- 9380663339. 3
- 9380663340. 4

Question Number : 36 Question Id : 938066861 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Correct Marks : 2 Wrong Marks : 0

What is the correct sequence, from initial to final, of blue baby disease, methemoglobinemia, in human infants?

- A. Conversion of nitrate ions to nitrite ions by microorganisms in human body
- B. Oxidation of ions from Fe(II) to Fe(III) in hemoglobin by nitrite ions.
- C. Consumption of nitrate polluted water
- D. Forming of abnormal hemoglobin called methemoglobin

Choose the correct answer from the options given below:

- 1. C, B, A, D
- 2. C, A, B, D
- 3. A, D, B, C
- 4. A, C, B, D

Options :

- 9380663341. 1
- 9380663342. 2
- 9380663343. 3
- 9380663344. 4

Question Number : 36 Question Id : 938066861 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Correct Marks : 2 Wrong Marks : 0

मानव शिशुओं में ब्लू बेबी रोग, मेथेमोग्लोबिनेमिया का प्रारंभ से लेकर अंतिम तक का सही क्रम क्या है?

- A. मानव शरीर में सूक्ष्म जीवों द्वारा नाइट्रेट आयन्स का नाइट्राइट आयन्स में रूपांतरण
- B. नाइट्राइट आयन्स द्वारा हीमोग्लोबिन में Fe(II) से Fe(III) तक आयन्स का ऑक्सीकरण
- C. नाइट्रेट-प्रदूषित जल का उपयोग
- D. मेथेमोग्लोबिन नामक असामान्य हीमोग्लोबिन का निर्माण

नीचे दिए गए विकल्पों में से सही उत्तर चुने:

- 1. C, B, A, D
- 2. C, A, B, D
- 3. A, D, B, C
- 4. A, C, B, D

Options :

- 9380663341. 1
- 9380663342. 2
- 9380663343. 3
- 9380663344. 4

Question Number : 37 Question Id : 938066862 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Correct Marks : 2 Wrong Marks : 0

Electrostatic Precipitator is used in Thermal Power Plants to remove which of the following air pollutants?

1. Polycycli Aromatic Hydrocarbons
2. Gaseous Pollutants
3. Fly ash
4. Volatile Organic Compounds

Options :

- 9380663345. 1
- 9380663346. 2
- 9380663347. 3
- 9380663348. 4

Question Number : 37 Question Id : 938066862 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Correct Marks : 2 Wrong Marks : 0

निम्नलिखित में से किस वायु प्रदूषक को हटाने के लिए ताप विद्युत संयंत्रों में, स्थिर वैद्युत अवक्षेपण का, प्रयोग किया जाता है।

1. पोलिसाइक्ली एरोमैटिक हाइड्रोकार्बन्स
2. गैसयुक्त प्रदूषक
3. फ्लाई ऐश
4. वाष्पशील जैव यौगिक

Options :

- 9380663345. 1
- 9380663346. 2
- 9380663347. 3
- 9380663348. 4

Question Number : 38 Question Id : 938066863 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Correct Marks : 2 Wrong Marks : 0

Match the **LIST-I** with **LIST-II**

LIST-I (Types of water pollutant)		LIST-II (Example)	
A.	Disease Causing Agent	I.	Fine particles of clay
B.	Oxygen Consuming Waste	II.	Coliform Bacteria
C.	Plant Nutrient	III.	Animals and Plants in aquatic habitat
D.	Suspended Solids	IV.	Phosphorous

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-II, C-III, D-IV
4. A-I, B-II, C-IV, D-III

Options :

9380663349. 1
9380663350. 2
9380663351. 3
9380663352. 4

Question Number : 38 Question Id : 938066863 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Correct Marks : 2 Wrong Marks : 0

सूची-I के साथ सूची-II का मिलान कीजिए:

सूची-I (जलप्रदूषण के प्रकार)		सूची-II (उदाहरण)	
A.	रोगजनक कर्मक (एजेंट)	I.	चिकनी मिट्टी के परिष्कृत कण
B.	ऑक्सीजन उपभोगकारी अपशिष्ट	II.	कोलिफॉर्म जीवाणु (बैक्टीरिया)
C.	पादप पोषक	III.	जलीय पर्यावास में जन्तु और पौधे
D.	प्रलंबित कण (सस्पेंडेड सॉलिड)	IV.	फॉस्फोरस

नीचे दिए गए विकल्पों में से सही उत्तर का चयन कीजिए :

1. A-II, B-III, C-I, D-IV
2. A-II, B-III, C-IV, D-I
3. A-I, B-II, C-III, D-IV
4. A-I, B-II, C-IV, D-III

Options :

9380663349. 1
9380663350. 2
9380663351. 3
9380663352. 4

Question Number : 39 Question Id : 938066864 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Correct Marks : 2 Wrong Marks : 0

Match the **LIST-I** with **LIST-II**

LIST-I (Waste water treatment process)		LIST-II (Explanation)	
A.	Ozonation	I.	Removal of excess iron and manganese
B.	Aeration	II.	Removal of large solids
C.	Floculation	III.	Disinfection
D.	Screening	IV.	Very small particles are clustered together

Choose the *correct* answer from the options given below:

1. A-III, B-I, C-IV, D-II
2. A-III, B-I, C-II, D-IV
3. A-I, B-III, C-II, D-IV
4. A-IV, B-II, C-III, D-I

Options :

9380663353. 1
9380663354. 2
9380663355. 3
9380663356. 4

Question Number : 39 Question Id : 938066864 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Correct Marks : 2 Wrong Marks : 0

सूची-I के साथ सूची-II का मिलान कीजिए:

सूची-I (अपशिष्ट जल उपचार प्रक्रिया)		सूची-II (विवरण)	
A.	ओजोनीकरण	I.	लौह व मैंगनीज की अधिकता को हटाना
B.	वातन	II.	बड़े ठोस को हटाना
C.	ऊर्णन	III.	विसंक्रमण
D.	स्क्रीनिंग	IV.	अत्यधिक लघु कणों का एक साथ गुच्छ

नीचे दिए गए विकल्पों में से सही उत्तर का चयन कीजिए :

1. A-III, B-I, C-IV, D-II
2. A-III, B-I, C-II, D-IV
3. A-I, B-III, C-II, D-IV
4. A-IV, B-II, C-III, D-I

Options :

9380663353. 1
9380663354. 2
9380663355. 3
9380663356. 4

Question Number : 40 Question Id : 938066865 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Correct Marks : 2 Wrong Marks : 0

What is the correct increasing order of U-235 (fissile uranium) ratio in following?

- A. Natural Uranium
- B. Uranium Ore
- C. Weapon grade uranium
- D. Reactor grade uranium

Choose the correct answer from the options given below:

- 1. B, A, C, D
- 2. B, A, D, C
- 3. D, C, A, B
- 4. D, C, B, A

Options :

- 9380663357. 1
- 9380663358. 2
- 9380663359. 3
- 9380663360. 4

Question Number : 40 Question Id : 938066865 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Correct Marks : 2 Wrong Marks : 0

निम्न में यू-235 (विखंडनीय यूरेनियम) अनुपात का सही वर्धमान क्रम क्या है?

- A. प्राकृतिक यूरेनियम
- B. यूरेनियम अयस्क
- C. आयुद्ध ग्रेड यूरेनियम
- D. रिएक्टर ग्रेड यूरेनियम

नीचे दिए गए विकल्पों में से सही उत्तर चुने:

- 1. B, A, C, D
- 2. B, A, D, C
- 3. D, C, A, B
- 4. D, C, B, A

Options :

- 9380663357. 1
- 9380663358. 2
- 9380663359. 3
- 9380663360. 4

Question Number : 41 Question Id : 938066866 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Correct Marks : 2 Wrong Marks : 0

Which of the following are four guiding principles in the development of higher education in India?

1. Access, Authority, Equity, Equality
2. Accountability, Based on freedom, Access, Free
3. Access, Equity, Accountability, Equality
4. Assessment, Equality, Affordability, Research Oriented

Options :

- 9380663361. 1
- 9380663362. 2
- 9380663363. 3
- 9380663364. 4

Question Number : 41 Question Id : 938066866 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Correct Marks : 2 Wrong Marks : 0

भारत में उच्चतर शिक्षा के विकास के लिए कौन से चार मार्गदर्शक सिद्धान्त हैं?

1. पहुँच/ सुगम्यता, प्राधिकार, समता (इक्विटी), समानता
2. उत्तरदायित्व, स्वतंत्रता, सुगम्यता और निःशुल्कता पर आधारित
3. सुगम्यता, समता, उत्तरदायित्व, समानता
4. आकलन, समानता, वहनीय, शोध-उन्मुख

Options :

- 9380663361. 1
- 9380663362. 2
- 9380663363. 3
- 9380663364. 4

Question Number : 42 Question Id : 938066867 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Correct Marks : 2 Wrong Marks : 0

The full form of AICTE is_____

1. Academic Institutions Council of Teacher Education
2. All India Council for Technical Education
3. All India Constitution for Teacher Education
4. All India Institute for Teacher Education

Options :

- 9380663365. 1
- 9380663366. 2
- 9380663367. 3
- 9380663368. 4

Question Number : 42 Question Id : 938066867 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Correct Marks : 2 Wrong Marks : 0

ए. आइ. सी. टी. इ. (AICTE) का पूर्ण रूप क्या है?

1. अकेडेमिक इंस्टीट्यूशन्स काउन्सिल ऑफ़ टीचर एजुकेशन
2. ऑल इन्डिया काउन्सिल फॉर टेक्नीकल एजुकेशन
3. ऑल इन्डिया कान्स्टीट्यूशन फॉर टीचर्स एजुकेशन
4. ऑल इन्डिया इंस्टीट्यूट फॉर टीचर एजुकेशन

Options :

9380663365. 1
9380663366. 2
9380663367. 3
9380663368. 4

Question Number : 43 Question Id : 938066868 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Correct Marks : 2 Wrong Marks : 0

Arrange the following components in the context of “Effective Learning Environment”.

- A. Continuous Formative Assessment
- B. Adequate Students Support
- C. Appropriate Curriculum
- D. Engaging Pedagogy
- E. Providing suitable resources and infrastructure

Choose the correct answer from the options given below:

1. E, B, A, C, D
2. B, A, C, D, E
3. C, D, A, B, E
4. A, B, C, D, E

Options :

9380663369. 1
9380663370. 2
9380663371. 3
9380663372. 4

Question Number : 43 Question Id : 938066868 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Correct Marks : 2 Wrong Marks : 0

"प्रभावी अधिगम वातावरण" के सन्दर्भ में निम्नलिखित घटकों (A- E) को सही क्रम में लगाइए

- A. सतत निर्माणात्मक आकलन
- B. छात्रों का पर्याप्त समर्थन
- C. समुचित पाठ्यचर्या
- D. संलग्नतापूर्ण शिक्षणशास्त्र
- E. उपयुक्त संसाधन और आधार-भूत ढाँचा प्रदान करना

नीचे दिए गए विकल्पों में से सही उत्तर चुने:

- 1. E, B, A, C, D
- 2. B, A, C, D, E
- 3. C, D, A, B, E
- 4. A, B, C, D, E

Options :

- 9380663369. 1
- 9380663370. 2
- 9380663371. 3
- 9380663372. 4

Question Number : 44 Question Id : 938066869 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Correct Marks : 2 Wrong Marks : 0

In the Buddha Period, which educational centres were established along with monasteries?

- A. Ballabhi
- B. Baba Mastnath University
- C. Nalanda
- D. Vikramshila
- E. Taxila

Choose the correct answer from the options given below:

- 1. B, C and E Only
- 2. A, B, C and D Only
- 3. A, C, D and E Only
- 4. B, D and E Only

Options :

- 9380663373. 1
- 9380663374. 2
- 9380663375. 3
- 9380663376. 4

Question Number : 44 Question Id : 938066869 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Correct Marks : 2 Wrong Marks : 0

बुद्ध-काल में, मठों के साथ, कौन से शिक्षा-केन्द्र स्थापित किए गए थे?

- A. बल्लभी
- B. बाबा मस्तनाथ विश्वविद्यालय
- C. नालन्दा
- D. विक्रमशिला
- E. तक्षशिला

नीचे दिए गए विकल्पों में से सही उत्तर चुने:

1. केवल B, C और E
2. केवल A, B, C और D
3. केवल A, C, D और E
4. केवल B, D और E

Options :

- 9380663373. 1
- 9380663374. 2
- 9380663375. 3
- 9380663376. 4

Question Number : 45 Question Id : 938066870 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Correct Marks : 2 Wrong Marks : 0

Match the LIST-I with LIST-II

LIST-I (Author)		LIST-II (Area)	
A.	Sankara	I.	Vedanta Sutras
B.	Ramanuja	II.	Algebra and Astronomy
C.	Vidyapati	III.	Dialect of Behar
D.	Bhaskara	IV.	Vedanta Sutras and the Bhagavatgita

Choose the *correct* answer from the options given below:

1. A-I, B-II, C-III, D-IV
2. A-IV, B-I, C-III, D-II
3. A-IV, B-III, C-II, D-I
4. A-I, B-III, C-IV, D-II

Options :

- 9380663377. 1
- 9380663378. 2
- 9380663379. 3
- 9380663380. 4

Question Number : 45 Question Id : 938066870 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Correct Marks : 2 Wrong Marks : 0

सूची-I के साथ सूची-II का मिलान कीजिए:

सूची-I (लेखक)		सूची-II (विषय-क्षेत्र)	
A.	संकारा	I.	वेदान्त- सूत्र
B.	रामानुज	II.	बीजगणित और ज्योतिष
C.	विद्यापति	III.	बिहार की बोली
D.	भास्कर	IV.	वेदान्त सूत्र और भगवद् गीता

नीचे दिए गए विकल्पों में से सही उत्तर का चयन कीजिए :

1. A-I, B-II, C-III, D-IV
2. A-IV, B-I, C-III, D-II
3. A-IV, B-III, C-II, D-I
4. A-I, B-III, C-IV, D-II

Options :

9380663377. 1
9380663378. 2
9380663379. 3
9380663380. 4

Sub-Section Number :

3

Sub-Section Id :

93806639

Question Shuffling Allowed :

No

Question Id : 938066871 Question Type : COMPREHENSION Sub Question Shuffling Allowed : Yes Group
Comprehension Questions : No Question Pattern Type : NonMatrix
Question Numbers : (46 to 50)

Read the following passage carefully and answer the questions:

The capitalist system of society does not foster healthy relations among human beings. A few people own all the means of production and others-though nominally few have to sell their labour under conditions imposed upon them. The emphasis of capitalism being on the supreme importance of material wealth the intensity of its appeal is to the acquisitive intensity. It promotes worship of economic power with little regard to the means employed for its acquisition and the end that it serves. By its exploitation of human beings to the limits of endurance its concentration is on the largest profit rather than maximum production.

Thus the division of human family is done on the basis of economic circumstances. All this is injurious to division of human dignity. And when the harrowed poor turn to the founders of religion for succour, they rather offer a subtle defence of the established order. They promise future happiness for their present suffering and conjure up visions of paradise to redress the balance to soothe the suffering and the revolt of the tortured men. The system imposes injustice, the religion justifies it.

Sub questions

Question Number : 46 Question Id : 938066872 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No
Correct Marks : 2 Wrong Marks : 0

After going through the passage, it can be inferred that the capitalist system is

1. Ambitious
2. Biased
3. Humane
4. Realistic

Options :

9380663381. 1
9380663382. 2
9380663383. 3
9380663384. 4

Question Number : 47 Question Id : 938066873 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No
Correct Marks : 2 Wrong Marks : 0

The maximum control over the means of production is under

1. All the stake holders
2. Proletarian class
3. Owners of the system
4. Working class

Options :

9380663385. 1
9380663386. 2
9380663387. 3
9380663388. 4

Question Number : 48 Question Id : 938066874 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No

Correct Marks : 2 Wrong Marks : 0

In a capitalist system,

1. the ends justify the means
2. the means justify the ends
3. the means leading to exploitation are strictly prohibited
4. the religion decides the issue related to the means

Options :

- 9380663389. 1
- 9380663390. 2
- 9380663391. 3
- 9380663392. 4

Question Number : 49 Question Id : 938066875 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No

Correct Marks : 2 Wrong Marks : 0

Capitalism is detrimental to equality as it divides the society into the groups, namely,

1. Working and non-working
2. Buyers and Sellers
3. Exploiters and Exploited
4. Religious and Atheist

Options :

- 9380663393. 1
- 9380663394. 2
- 9380663395. 3
- 9380663396. 4

Question Number : 50 Question Id : 938066876 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No

Correct Marks : 2 Wrong Marks : 0

The capitalist system focuses on

1. Maximum production
2. Unusual benefits
3. Investment on human resources
4. Reduction of expenditure

Options :

- 9380663397. 1
- 9380663398. 2
- 9380663399. 3
- 9380663400. 4

निम्नलिखित गद्यांश को सावधानीपूर्वक पढ़िए व उसके बाद पूछे गए प्रश्नों के उत्तर दीजिए:

समाज की पूंजीवादी व्यवस्था मनुष्यों के बीच स्वस्थ संबंधों का पोषण नहीं करती है। बहुत थोड़े लोग उत्पादन के सभी साधनों के स्वामी होते हैं और अन्य- यद्यपि नाम मात्र के लिए कुछ को स्वयं पर थोपी गई शर्तों के अधीन अपनी श्रम शक्ति को बेचना पड़ता है। चूँकि पूंजीवाद का जोर भौतिक संपदा के सर्वोच्च महत्त्व पर होता है इसलिए इसकी अपील की तीव्रता अर्जनशील तीव्रता की ओर होती है। यह आर्थिक शक्ति की उपासना को बढ़ावा देती है और इसके अर्जन के लिए नियोजित साधनों पर कोई ध्यान नहीं देती है और यह लक्ष्य पूर्ति को बढ़ावा देती है। मानवीय सहन-शीलता की चरम सीमा तक मनुष्यों के इसके शोषण से, इसका संकेन्द्रण अधिकतम उत्पादन पर न होकर सर्वाधिक मुनाफे पर होता है।

अतः मानव परिवार का विभाजन आर्थिक स्थिति के आधार पर किया जाता है। यह सब मानवीय गरिमा के विभाजन के लिए हानिकारक है। और जब उत्पीड़ित निर्धन सहायता के लिए धर्म के संस्थापकों की ओर मुड़ता है, तो वे स्थापित व्यवस्था का चालाकी पूर्वक बचाव करते हैं। वे उनके वर्तमान दुखों के लिए भावी सुखों का वचन देते हैं और संतुष्ट मनुष्यों के दुःख व विद्रोह पर मरहम लगा कर संतुलन बनाए रखने हेतु स्वर्ग का मायाजाल बुनते हैं। व्यवस्था अन्याय थोपती है और धर्म उसे उचित ठहराता है।

Sub questions

Question Number : 46 Question Id : 938066872 Question Type : MCQ Option Shuffling : No Display Question
Number : Yes Is Question Mandatory : No
Correct Marks : 2 Wrong Marks : 0

गद्यांश को पढ़ने के पश्चात यह निष्कर्ष निकाला जा सकता है कि पूंजीवादी व्यवस्था _____

1. महत्वाकांक्षी है
2. पक्षपातपूर्ण है
3. मानवीय है
4. यथार्थपरक है

Options :

9380663381. 1
9380663382. 2
9380663383. 3
9380663384. 4

Question Number : 47 Question Id : 938066873 Question Type : MCQ Option Shuffling : No Display Question
Number : Yes Is Question Mandatory : No
Correct Marks : 2 Wrong Marks : 0

उत्पादन के साधनों पर अधिकतम नियंत्रण निम्न में से किसके अधीन होता है?

1. समस्त हितधारक
2. सर्वहारा वर्ग
3. व्यवस्था के स्वामी
4. श्रमिक वर्ग

Options :

9380663385. 1
9380663386. 2
9380663387. 3

Question Number : 48 Question Id : 938066874 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Correct Marks : 2 Wrong Marks : 0

पूँजीवादी व्यवस्था में

1. साध्य साधन का औचित्य देता है।
2. साधन साध्य का औचित्य देते हैं।
3. शोषण की ओर ले जाने वाले साधन कड़ाई के साथ निषिद्ध है।
4. साधनों से संबंधित विषयों का निर्णय धर्म करता है।

Options :

9380663389. 1
9380663390. 2
9380663391. 3
9380663392. 4

Question Number : 49 Question Id : 938066875 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Correct Marks : 2 Wrong Marks : 0

पूँजीवाद समानता के प्रति हानिकारक है क्योंकि यह समाज को निम्न दो समूहों में विभाजित कर देता है ____

1. कार्य करने वाले व कार्य न करने वाले
2. क्रेता व विक्रेता
3. शोषक व शोषित
4. धार्मिक व नास्तिक

Options :

9380663393. 1
9380663394. 2
9380663395. 3
9380663396. 4

Question Number : 50 Question Id : 938066876 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Correct Marks : 2 Wrong Marks : 0

पूँजीवादी व्यवस्था निम्न में से किस पर केन्द्रित करती है?

1. अधिकतम उत्पादन
2. असामान्य लाभ
3. मानव संसाधनों पर निवेश
4. व्यय में कमी

Options :

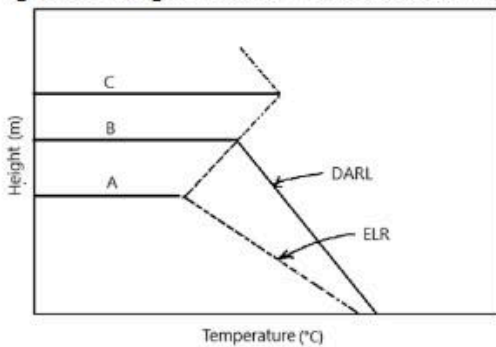
9380663397. 1
9380663398. 2
9380663399. 3
9380663400. 4

Environmental Sciences

Section Id :	93806614
Section Number :	2
Section type :	Online
Mandatory or Optional :	Mandatory
Number of Questions :	92
Number of Questions to be attempted :	92
Section Marks :	200
Maximum Instruction Time :	0
Sub-Section Number :	1
Sub-Section Id :	93806640
Question Shuffling Allowed :	Yes

Question Number : 51 Question Id : 938066877 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No
Correct Marks : 2 Wrong Marks : 0

The atmospheric condition at a given time is shown in figure given below. If the average wind speed that prevailed was 10 m/s, what will be the ventilation coefficient?



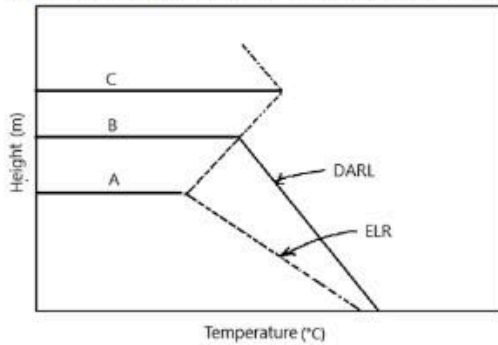
1. $10 A \text{ m}^2/\text{s}$
2. $10 B \text{ m}^2/\text{s}$
3. $100 A \text{ m}^2/\text{s}$
4. $10 C \text{ m}^2/\text{s}$

Options :

9380663401. 1
9380663402. 2
9380663403. 3
9380663404. 4

Question Number : 51 Question Id : 938066877 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Correct Marks : 2 Wrong Marks : 0

The atmospheric condition at a given time is shown in figure given below. If the average wind speed that prevailed was 10 m/s, what will be the ventilation coefficient?



1. $10 A \text{ m}^2/\text{s}$
2. $10 B \text{ m}^2/\text{s}$
3. $100 A \text{ m}^2/\text{s}$
4. $10 C \text{ m}^2/\text{s}$

Options :

9380663401. 1
9380663402. 2
9380663403. 3
9380663404. 4

Question Number : 52 Question Id : 938066878 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Correct Marks : 2 Wrong Marks : 0

Average solar radiation incident at the top of Earth's atmosphere is 342 Wm^{-2} . The global planetary albedo is 0.30, and 67 Wm^{-2} of incident radiation is absorbed by atmosphere. On an average, 390 Wm^{-2} is lost from the Earth's surface as IR, but the Earth absorbed 80% of the form of IR emitted downward by the atmosphere. If the global average sensible heat flux away from the surface is 24 Wm^{-2} . Calculate the global latent heat flux.

1. $\sim 78 \text{ Wm}^{-2}$
2. $\sim 70 \text{ Wm}^{-2}$
3. $\sim 172 \text{ Wm}^{-2}$
4. $\sim 48 \text{ Wm}^{-2}$

Options :

9380663405. 1
9380663406. 2
9380663407. 3
9380663408. 4

Question Number : 52 Question Id : 938066878 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Correct Marks : 2 Wrong Marks : 0

Average solar radiation incident at the top of Earth's atmosphere is 342 Wm^{-2} . The global planetary albedo is 0.30, and 67 Wm^{-2} of incident radiation is absorbed by atmosphere. On an average, 390 Wm^{-2} is lost from the Earth's surface as IR, but the Earth absorbed 80% of the form of IR emitted downward by the atmosphere. If the global average sensible heat flux away from the surface is 24 Wm^{-2} . Calculate the global latent heat flux.

1. $\sim 78 \text{ Wm}^{-2}$
2. $\sim 70 \text{ Wm}^{-2}$
3. $\sim 172 \text{ Wm}^{-2}$
4. $\sim 48 \text{ Wm}^{-2}$

Options :

- 9380663405. 1
- 9380663406. 2
- 9380663407. 3
- 9380663408. 4

Question Number : 53 Question Id : 938066879 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Correct Marks : 2 Wrong Marks : 0

Remote sensing sensors can work on wavelengths 8 to $14 \mu\text{m}$ and 3 to $5 \mu\text{m}$. Based on which of the following laws, wavelength of 8 to $14 \mu\text{m}$ is chosen to collect data?

1. Kirchoff's Law
2. Plank's Law
3. Stefan Boltzman Law
4. Wien's Displacement Law

Options :

- 9380663409. 1
- 9380663410. 2
- 9380663411. 3
- 9380663412. 4

Question Number : 53 Question Id : 938066879 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Correct Marks : 2 Wrong Marks : 0

Remote sensing sensors can work on wavelengths 8 to 14 μm and 3 to 5 μm . Based on which of the following laws, wavelength of 8 to 14 μm is chosen to collect data?

1. Kirchoff's Law
2. Plank's Law
3. Stefan Boltzman Law
4. Wien's Displacement Law

Options :

9380663409. 1
9380663410. 2
9380663411. 3
9380663412. 4

Question Number : 54 Question Id : 938066880 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Correct Marks : 2 Wrong Marks : 0

Arrange the following gases in decreasing order of their percentage abundance in atmosphere on dry basis.

- A. Carbon dioxide
- B. Argon
- C. Helium
- D. Neon
- E. Methane

Choose the correct answer from the options given below:

1. A, B, C, D, E
2. B, A, C, D, E
3. B, A, D, C, E
4. B, A, E, D, C

Options :

9380663413. 1
9380663414. 2
9380663415. 3
9380663416. 4

Question Number : 54 Question Id : 938066880 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Correct Marks : 2 Wrong Marks : 0

Arrange the following gases in decreasing order of their percentage abundance in atmosphere on dry basis.

- A. Carbon dioxide
- B. Argon
- C. Helium
- D. Neon
- E. Methane

Choose the correct answer from the options given below:

- 1. A, B, C, D, E
- 2. B, A, C, D, E
- 3. B, A, D, C, E
- 4. B, A, E, D, C

Options :

- 9380663413. 1
- 9380663414. 2
- 9380663415. 3
- 9380663416. 4

Question Number : 55 Question Id : 938066881 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Correct Marks : 2 Wrong Marks : 0

Which of the following are examples of empirical classification of world climates?

- A. Bergeron and Spatial
- B. Koppen
- C. Oliver-Hidore
- D. Thornthwaite
- E. Trewartha

Choose the correct answer from the options given below:

- 1. A and C Only
- 2. B and D Only
- 3. C and E Only
- 4. B, C and D Only

Options :

- 9380663417. 1
- 9380663418. 2
- 9380663419. 3
- 9380663420. 4

Question Number : 55 Question Id : 938066881 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Correct Marks : 2 Wrong Marks : 0

Which of the following are examples of empirical classification of world climates?

- A. Bergeron and Spatial
- B. Koppen
- C. Oliver-Hidore
- D. Thornthwaite
- E. Trewartha

Choose the correct answer from the options given below:

- 1. A and C Only
- 2. B and D Only
- 3. C and E Only
- 4. B, C and D Only

Options :

- 9380663417. 1
- 9380663418. 2
- 9380663419. 3
- 9380663420. 4

Question Number : 56 Question Id : 938066882 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Correct Marks : 2 Wrong Marks : 0

Match the LIST-I with LIST-II

LIST-I Reduction in Ambient temperature with height is γ . Dry and saturated adiabatic lapse rates are γ_d and γ_s , respectively		LIST-II Stability class	
A.	$\gamma < \gamma_s$	I.	Absolutely Unstable
B.	$\gamma > \gamma_d$	II.	Conditionally Unstable
C.	$\gamma = \gamma_d$	III.	Absolutely Stable
D.	$\gamma_s > \gamma > \gamma_d$	IV.	Dry Neutral

Choose the *correct* answer from the options given below:

- 1. A-I, B-III, C-IV, D-II
- 2. A-III, B-II, C-IV, D-I
- 3. A-III, B-I, C-IV, D-II
- 4. A-I, B-III, C-IV, D-II

Options :

- 9380663421. 1
- 9380663422. 2
- 9380663423. 3
- 9380663424. 4

Question Number : 56 Question Id : 938066882 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Correct Marks : 2 Wrong Marks : 0

Match the **LIST-I** with **LIST-II**

LIST-I Reduction in Ambient temperature with height is Υ . Dry and saturated adiabatic lapse rates are Υ_d and Υ_s , respectively		LIST-II Stability class	
A.	$\Upsilon < \Upsilon_s$	I.	Absolutely Unstable
B.	$\Upsilon > \Upsilon_d$	II.	Conditionally Unstable
C.	$\Upsilon = \Upsilon_d$	III.	Absolutely Stable
D.	$\Upsilon_s > \Upsilon > \Upsilon_d$	IV.	Dry Neutral

Choose the *correct* answer from the options given below:

1. A-I, B-III, C-IV, D-II
2. A-III, B-II, C-IV, D-I
3. A-III, B-I, C-IV, D-II
4. A-I, B-III, C-IV, D-II

Options :

- 9380663421. 1
- 9380663422. 2
- 9380663423. 3
- 9380663424. 4

Question Number : 57 Question Id : 938066883 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Correct Marks : 2 Wrong Marks : 0

Match the **LIST-I** with **LIST-II**

LIST-I Spectral Index		LIST-II Expression	
A.	Bareness (NDBaI)	I.	$\frac{G - SWIR}{G + SWIR}$
B.	Built-up (NDBI)	II.	$\frac{NIR - SWIR}{NIR + SWIR}$
C.	Moisture (NDWI)	III.	$\frac{SWIR - NIR}{SWIR + NIR}$
D.	Snow (NDSI)	IV.	$\frac{SWIR - TIR}{SWIR + TIR}$

Choose the *correct* answer from the options given below:

1. A-I, B-II, C-III, D-IV
2. A-I, B-III, C-II, D-IV
3. A-IV, B-II, C-III, D-I
4. A-IV, B-III, C-II, D-I

Options :

- 9380663425. 1
- 9380663426. 2
- 9380663427. 3
- 9380663428. 4

Question Number : 57 Question Id : 938066883 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Correct Marks : 2 Wrong Marks : 0

Match the **LIST-I** with **LIST-II**

LIST-I Spectral Index		LIST-II Expression	
A.	Bareness (NDBaI)	I.	$\frac{G - SWIR}{G + SWIR}$
B.	Built-up (NDBI)	II.	$\frac{NIR - SWIR}{NIR + SWIR}$
C.	Moisture (NDWI)	III.	$\frac{SWIR - NIR}{SWIR + NIR}$
D.	Snow (NDSI)	IV.	$\frac{SWIR - TIR}{SWIR + TIR}$

Choose the *correct* answer from the options given below:

1. A-I, B-II, C-III, D-IV
2. A-I, B-III, C-II, D-IV
3. A-IV, B-II, C-III, D-I
4. A-IV, B-III, C-II, D-I

Options :

- 9380663425. 1
- 9380663426. 2
- 9380663427. 3
- 9380663428. 4

Question Number : 58 Question Id : 938066884 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Correct Marks : 2 Wrong Marks : 0

Match the **LIST-I** with **LIST-II**

LIST-I Platform		LIST-II Sensors	
A.	Aqua	I.	MSI
B.	NOAA	II.	MODIS
C.	Sentinel – 2	III.	ASTER, MODIS
D.	Terra	IV.	VIIRS, AVHRR

Choose the *correct* answer from the options given below:

1. A-III, B-IV, C-I, D-II
2. A-II, B-IV, C-I, D-III
3. A-II, B-I, C-IV, D-III
4. A-III, B-I, C-II, D-IV

Options :

- 9380663429. 1
- 9380663430. 2
- 9380663431. 3
- 9380663432. 4

Question Number : 58 Question Id : 938066884 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Correct Marks : 2 Wrong Marks : 0

Match the **LIST-I** with **LIST-II**

LIST-I Platform		LIST-II Sensors	
A.	Aqua	I.	MSI
B.	NOAA	II.	MODIS
C.	Sentinel – 2	III.	ASTER, MODIS
D.	Terra	IV.	VIIRS, AVHRR

Choose the *correct* answer from the options given below:

1. A-III, B-IV, C-I, D-II
2. A-II, B-IV, C-I, D-III
3. A-II, B-I, C-IV, D-III
4. A-III, B-I, C-II, D-IV

Options :

- 9380663429. 1
- 9380663430. 2
- 9380663431. 3
- 9380663432. 4

Question Number : 59 Question Id : 938066885 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Correct Marks : 2 Wrong Marks : 0

Which of the following cloud types are found in stratosphere?

- A. Cirrus clouds
- B. Cumulonimbus clouds
- C. Mother of Pearl clouds
- D. Nacreous clouds
- E. Noctilucent clouds

Choose the correct answer from the options given below:

- 1. A, C and D Only
- 2. B, D and E Only
- 3. C, D and E Only
- 4. A, D and E Only

Options :

- 9380663433. 1
- 9380663434. 2
- 9380663435. 3
- 9380663436. 4

Question Number : 59 Question Id : 938066885 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Correct Marks : 2 Wrong Marks : 0

Which of the following cloud types are found in stratosphere?

- A. Cirrus clouds
- B. Cumulonimbus clouds
- C. Mother of Pearl clouds
- D. Nacreous clouds
- E. Noctilucent clouds

Choose the correct answer from the options given below:

- 1. A, C and D Only
- 2. B, D and E Only
- 3. C, D and E Only
- 4. A, D and E Only

Options :

- 9380663433. 1
- 9380663434. 2
- 9380663435. 3
- 9380663436. 4

Question Number : 60 Question Id : 938066886 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Correct Marks : 2 Wrong Marks : 0

Arrange the following distinct zones of the Sun starting from the core to outward:

- A. Chromosphere
- B. Convection zone
- C. Corona
- D. Photosphere
- E. Radiative zone

Choose the correct answer from the options given below:

- 1. C, A, B, D, E
- 2. C, B, E, A, D
- 3. E, D, B, A, C
- 4. E, B, D, A, C

Options :

- 9380663437. 1
- 9380663438. 2
- 9380663439. 3
- 9380663440. 4

Question Number : 60 Question Id : 938066886 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Correct Marks : 2 Wrong Marks : 0

Arrange the following distinct zones of the Sun starting from the core to outward:

- A. Chromosphere
- B. Convection zone
- C. Corona
- D. Photosphere
- E. Radiative zone

Choose the correct answer from the options given below:

- 1. C, A, B, D, E
- 2. C, B, E, A, D
- 3. E, D, B, A, C
- 4. E, B, D, A, C

Options :

- 9380663437. 1
- 9380663438. 2
- 9380663439. 3
- 9380663440. 4

Question Number : 61 Question Id : 938066887 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Correct Marks : 2 Wrong Marks : 0

Match the **LIST-I** with **LIST-II**

LIST-I		LIST-II	
A.	Dichlorvos	I.	Type A organophosphate insecticide
B.	Melathion	II.	Type B organophosphate insecticide
C.	Parathion	III.	Type C organophosphate insecticide
D.	Lindane	IV.	Organochlorine Insecticide

Choose the *correct* answer from the options given below:

1. A-II, B-III, C-I, D-IV
2. A-IV, B-II, C-III, D-I
3. A-I, B-III, C-II, D-IV
4. A-I, B-II, C-III, D-IV

Options :

- 9380663441. 1
- 9380663442. 2
- 9380663443. 3
- 9380663444. 4

Question Number : 61 Question Id : 938066887 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Correct Marks : 2 Wrong Marks : 0

Match the **LIST-I** with **LIST-II**

LIST-I		LIST-II	
A.	Dichlorvos	I.	Type A organophosphate insecticide
B.	Melathion	II.	Type B organophosphate insecticide
C.	Parathion	III.	Type C organophosphate insecticide
D.	Lindane	IV.	Organochlorine Insecticide

Choose the *correct* answer from the options given below:

1. A-II, B-III, C-I, D-IV
2. A-IV, B-II, C-III, D-I
3. A-I, B-III, C-II, D-IV
4. A-I, B-II, C-III, D-IV

Options :

- 9380663441. 1
- 9380663442. 2
- 9380663443. 3
- 9380663444. 4

Question Number : 62 Question Id : 938066888 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Correct Marks : 2 Wrong Marks : 0

Consider the following statements and choose the INCORRECT statement.

1. Chromate ions are soluble in water.
2. Arsenate ion are insoluble in water
3. Arsenite is more toxic than arsenate
4. Chromite is more toxic than chromate .

Options :

- 9380663445. 1
- 9380663446. 2
- 9380663447. 3
- 9380663448. 4

Question Number : 62 Question Id : 938066888 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Correct Marks : 2 Wrong Marks : 0

Consider the following statements and choose the INCORRECT statement.

1. Chromate ions are soluble in water.
2. Arsenate ion are insoluble in water
3. Arsenite is more toxic than arsenate
4. Chromite is more toxic than chromate .

Options :

- 9380663445. 1
- 9380663446. 2
- 9380663447. 3
- 9380663448. 4

Question Number : 63 Question Id : 938066889 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Correct Marks : 2 Wrong Marks : 0

Which of the following is most important analog of DDT that have same general size, shape and possess the same insecticidal properties but is more biodegradable and less bioaccumulative ?

1. Para-dichlorodiphenyldichloroethane (DDD)
2. DDA
3. Methoxy chlor
4. Toxaphene

Options :

- 9380663449. 1
- 9380663450. 2
- 9380663451. 3
- 9380663452. 4

Question Number : 63 Question Id : 938066889 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Correct Marks : 2 Wrong Marks : 0

Which of the following is most important analog of DDT that have same general size, shape and possess the same insecticidal properties but is more biodegradable and less bioaccumulative ?

1. Para-dichlorodiphenyldichloroethane (DDD)
2. DDA
3. Methoxy chlor
4. Toxaphene

Options :

9380663449. 1
9380663450. 2
9380663451. 3
9380663452. 4

Question Number : 64 Question Id : 938066890 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Correct Marks : 2 Wrong Marks : 0

Consider the following statements and choose the INCORRECT statement.

1. Diesel vehicles, operated 'fuel lean', produce less NO compared to gasoline vehicle.
2. More ozone will be formed in an area having high NO compared to NO₂ concentration in ambient atmosphere
3. Ozone was not present in highest quantity in London Smog
4. Aldehydes absorb sunlight with $\lambda < 315$ nm i.e., UV-B and some UV-A

Options :

9380663453. 1
9380663454. 2
9380663455. 3
9380663456. 4

Question Number : 64 Question Id : 938066890 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Correct Marks : 2 Wrong Marks : 0

Consider the following statements and choose the INCORRECT statement.

1. Diesel vehicles, operated 'fuel lean', produce less NO compared to gasoline vehicle.
2. More ozone will be formed in an area having high NO compared to NO₂ concentration in ambient atmosphere
3. Ozone was not present in highest quantity in London Smog
4. Aldehydes absorb sunlight with $\lambda < 315$ nm i.e., UV-B and some UV-A

Options :

9380663453. 1
9380663454. 2
9380663455. 3
9380663456. 4

Question Number : 65 Question Id : 938066891 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Correct Marks : 2 Wrong Marks : 0

Consider the following statements and Choose the INCORRECT statement

1. Ozone partially absorbs UV-B in stratosphere
2. Conversion of inactive to active chlorine occur at surface of particles formed by solution of H_2O , H_2SO_4 , and HNO_3
3. Bromine containing hydrogen free substances 'Halon' do not have ozone depleting potential
4. Denitrification of lower stratosphere extends life of the Antarctic ozone hole

Options :

- 9380663457. 1
- 9380663458. 2
- 9380663459. 3
- 9380663460. 4

Question Number : 65 Question Id : 938066891 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Correct Marks : 2 Wrong Marks : 0

Consider the following statements and Choose the INCORRECT statement

1. Ozone partially absorbs UV-B in stratosphere
2. Conversion of inactive to active chlorine occur at surface of particles formed by solution of H_2O , H_2SO_4 , and HNO_3
3. Bromine containing hydrogen free substances 'Halon' do not have ozone depleting potential
4. Denitrification of lower stratosphere extends life of the Antarctic ozone hole

Options :

- 9380663457. 1
- 9380663458. 2
- 9380663459. 3
- 9380663460. 4

Question Number : 66 Question Id : 938066892 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Correct Marks : 2 Wrong Marks : 0

In an open system, which of the following does not partition between the gas and aqueous phase?

1. CO_2
2. NH_3
3. H_3PO_4
4. H_2S

Options :

- 9380663461. 1
- 9380663462. 2
- 9380663463. 3
- 9380663464. 4

Question Number : 66 Question Id : 938066892 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No
Correct Marks : 2 Wrong Marks : 0

In an open system, which of the following does not partition between the gas and aqueous phase?

1. CO_2
2. NH_3
3. H_3PO_4
4. H_2S

Options :

- 9380663461. 1
- 9380663462. 2
- 9380663463. 3
- 9380663464. 4

Question Number : 67 Question Id : 938066893 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No
Correct Marks : 2 Wrong Marks : 0

Consider the following statements about solubility of gases in surface water.

- A. Equilibrium concentration of a dissolved gas in water as per Henry's law is referred to as its saturation value
- B. There may be more dissolved gas in water than its saturation value in water
- C. It is more common for a dissolved gas to be present in less amount in water than its saturation value in water
- D. The excess or deficit of a dissolved gas compared to its saturation value cannot be brought back to saturation level in water
- E. Solubility of gas depends on partial pressure of the gas but is independent of purity of water

Choose the correct answer from the options given below:

1. A, B, C and E Only
2. A, B and C Only
3. A, B, C and D Only
4. A, C, D and E Only

Options :

- 9380663465. 1
- 9380663466. 2
- 9380663467. 3
- 9380663468. 4

Question Number : 67 Question Id : 938066893 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Correct Marks : 2 Wrong Marks : 0

Consider the following statements about solubility of gases in surface water.

- A. Equilibrium concentration of a dissolved gas in water as per Henry's law is referred to as its saturation value
- B. There may be more dissolved gas in water than its saturation value in water
- C. It is more common for a dissolved gas to be present in less amount in water than its saturation value in water
- D. The excess or deficit of a dissolved gas compared to its saturation value cannot be brought back to saturation level in water
- E. Solubility of gas depends on partial pressure of the gas but is independent of purity of water

Choose the correct answer from the options given below:

- 1. A, B, C and E Only
- 2. A, B and C Only
- 3. A, B, C and D Only
- 4. A, C, D and E Only

Options :

- 9380663465. 1
- 9380663466. 2
- 9380663467. 3
- 9380663468. 4

Question Number : 68 Question Id : 938066894 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Correct Marks : 2 Wrong Marks : 0

Consider the following statements and choose the CORRECT statements about organic compounds (OCs)

- A. The OCs are usually combustible and less soluble in water
- B. Several OCs exist for a given formula
- C. Reaction of OCs are usually ionic than molecular
- D. The OCs can be derived from nature, by synthesis, by fermentation
- E. Saturated hydrocarbons (Paraffins) are quite inert towards most chemical reagents.

Choose the correct answer from the options given below:

- 1. A, B, C and D Only
- 2. A, C, D and E Only
- 3. A, B, C and E Only
- 4. A, B, D and E Only

Options :

- 9380663469. 1
- 9380663470. 2
- 9380663471. 3
- 9380663472. 4

Question Number : 68 Question Id : 938066894 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No
Correct Marks : 2 Wrong Marks : 0

Consider the following statements and choose the CORRECT statements about organic compounds (OCs)

- A. The OCs are usually combustible and less soluble in water
- B. Several OCs exist for a given formula
- C. Reaction of OCs are usually ionic than molecular
- D. The OCs can be derived from nature, by synthesis, by fermentation
- E. Saturated hydrocarbons (Paraffins) are quite inert towards most chemical reagents.

Choose the correct answer from the options given below:

- 1. A, B, C and D Only
- 2. A, C, D and E Only
- 3. A, B, C and E Only
- 4. A, B, D and E Only

Options :

- 9380663469. 1
- 9380663470. 2
- 9380663471. 3
- 9380663472. 4

Question Number : 69 Question Id : 938066895 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No
Correct Marks : 2 Wrong Marks : 0

What will be the aerodynamic diameter of a spherical particle having diameter of 2 μm and density of 3 g/cm^3 ? Terminal velocity of spherical particle and the reference particle are same and the density of reference particle is 1 g/cm^3 .

- 1. $\sim 6.0 \mu\text{m}$
- 2. $\sim 3.5 \mu\text{m}$
- 3. $\sim 2.0 \mu\text{m}$
- 4. $\sim 1.8 \mu\text{m}$

Options :

- 9380663473. 1
- 9380663474. 2
- 9380663475. 3
- 9380663476. 4

Question Number : 69 Question Id : 938066895 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Correct Marks : 2 Wrong Marks : 0

What will be the aerodynamic diameter of a spherical particle having diameter of 2 μm and density of 3 g/cm^3 ? Terminal velocity of spherical particle and the reference particle are same and the density of reference particle is 1 g/cm^3 .

1. $\sim 6.0 \mu\text{m}$
2. $\sim 3.5 \mu\text{m}$
3. $\sim 2.0 \mu\text{m}$
4. $\sim 1.8 \mu\text{m}$

Options :

9380663473. 1
9380663474. 2
9380663475. 3
9380663476. 4

Question Number : 70 Question Id : 938066896 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Correct Marks : 2 Wrong Marks : 0

Consider the following statements about HPLC

- A. In normal phase HPLC, the stationary phase is non-polar and the mobile phase is polar.
- B. In normal phase HPLC, the least polar compound eludes first and increasing polarity of mobile phase decreases elution time.
- C. In reverse phase HPLC, the most polar compound eludes first and increasing polarity of mobile phase increases elution time.
- D. In the isocratic mode of HPLC analysis, the polarity of mobile phase remains unchanged throughout the run.
- E. The resolution of analysis depends on proper balance of intermolecular forces among the analyte, the mobile phase and the stationary phase.

Choose the correct answer from the options given below:

1. B, C and D Only
2. A, C, D and E Only
3. B, C, D and E Only
4. A, B, C and E Only

Options :

9380663477. 1
9380663478. 2
9380663479. 3
9380663480. 4

Question Number : 70 Question Id : 938066896 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Correct Marks : 2 Wrong Marks : 0

Consider the following statements about HPLC

- A. In normal phase HPLC, the stationary phase is non-polar and the mobile phase is polar.
- B. In normal phase HPLC, the least polar compound eludes first and increasing polarity of mobile phase decreases elution time.
- C. In reverse phase HPLC, the most polar compound eludes first and increasing polarity of mobile phase increases elution time.
- D. In the isocratic mode of HPLC analysis, the polarity of mobile phase remains unchanged throughout the run.
- E. The resolution of analysis depends on proper balance of intermolecular forces among the analyte, the mobile phase and the stationary phase.

Choose the correct answer from the options given below:

- 1. B, C and D Only
- 2. A, C, D and E Only
- 3. B, C, D and E Only
- 4. A, B, C and E Only

Options :

- 9380663477. 1
- 9380663478. 2
- 9380663479. 3
- 9380663480. 4

Question Number : 71 Question Id : 938066897 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Correct Marks : 2 Wrong Marks : 0

Consider the following statements about analysis on analytical instruments and data quality.

- A. Minimum detection limit (MDL) is three time of σ_{n-1} of blank concentration
- B. Minimum quantification limit (MQL) is 7-10 times of σ_{n-1} of blank concentration
- C. Lower concentration limit of a working linear range must be greater than the defined MDL
- D. Relative standard deviation is used as a measure of precision of the data
- E. An analytical data with high precision may or may not be accurate

Choose the correct answer from the options given below:

- 1. A, B, C and E Only
- 2. A, B, C and D Only
- 3. A, B, D and E Only
- 4. A, B, and E Only

Options :

- 9380663481. 1
- 9380663482. 2
- 9380663483. 3
- 9380663484. 4

Question Number : 71 Question Id : 938066897 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Correct Marks : 2 Wrong Marks : 0

Consider the following statements about analysis on analytical instruments and data quality.

- A. Minimum detection limit (MDL) is three time of σ_{n-1} of blank concentration
- B. Minimum quantification limit (MQL) is 7-10 times of σ_{n-1} of blank concentration
- C. Lower concentration limit of a working linear range must be greater than the defined MDL
- D. Relative standard deviation is used as a measure of precision of the data
- E. An analytical data with high precision may or may not be accurate

Choose the correct answer from the options given below:

- 1. A, B, C and E Only
- 2. A, B, C and D Only
- 3. A, B, D and E Only
- 4. A, B, and E Only

Options :

- 9380663481. 1
- 9380663482. 2
- 9380663483. 3
- 9380663484. 4

Question Number : 72 Question Id : 938066898 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Correct Marks : 2 Wrong Marks : 0

Which of the following is NOT true for ecological succession?

- 1. Primary succession involves colonization of habitats devoid of life
- 2. In primary succession, colonizing species deal with more stressful conditions compared to species colonizing in secondary succession.
- 3. Secondary succession involves re-establishment of a community.
- 4. Colonizing species face less competition for resources in secondary succession compared to primary succession

Options :

- 9380663485. 1
- 9380663486. 2
- 9380663487. 3
- 9380663488. 4

Question Number : 72 Question Id : 938066898 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Correct Marks : 2 Wrong Marks : 0

Which of the following is NOT true for ecological succession?

1. Primary succession involves colonization of habitats devoid of life
2. In primary succession, colonizing species deal with more stressful conditions compared to species colonizing in secondary succession.
3. Secondary succession involves re-establishment of a community.
4. Colonizing species face less competition for resources in secondary succession compared to primary succession

Options :

- 9380663485. 1
- 9380663486. 2
- 9380663487. 3
- 9380663488. 4

Question Number : 73 Question Id : 938066899 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Correct Marks : 2 Wrong Marks : 0

The proportion of the assimilated food that is used to produce new consumer biomass is production efficiency.

Arrange the following ectothermic organisms in the increasing order of their production efficiency.

- A. Fishes
- B. Carnivores
- C. Herbivores
- D. Detritivores

Choose the correct answer from the options given below:

1. B, C, D, A
2. A, C, D, B
3. A, D, C, B
4. D, A, C, B

Options :

- 9380663489. 1
- 9380663490. 2
- 9380663491. 3
- 9380663492. 4

Question Number : 73 Question Id : 938066899 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Correct Marks : 2 Wrong Marks : 0

The proportion of the assimilated food that is used to produce new consumer biomass is production efficiency.

Arrange the following ectothermic organisms in the increasing order of their production efficiency.

- A. Fishes
- B. Carnivores
- C. Herbivores
- D. Detritivores

Choose the correct answer from the options given below:

- 1. B, C, D, A
- 2. A, C, D, B
- 3. A, D, C, B
- 4. D, A, C, B

Options :

- 9380663489. 1
- 9380663490. 2
- 9380663491. 3
- 9380663492. 4

Question Number : 74 Question Id : 938066900 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Correct Marks : 2 Wrong Marks : 0

Arrange the following terrestrial biomes in the decreasing order of their global average Net Primary Productivity ($\text{g/m}^2/\text{yr}$).

- A. Boreal Forest
- B. Temperate Grassland
- C. Tropical Forest
- D. Temperate forest
- E. Crops

Choose the correct answer from the options given below:

- 1. C, D, E, B, A
- 2. C, D, B, E, A
- 3. C, B, D, E, A
- 4. A, E, B, D, C

Options :

- 9380663493. 1
- 9380663494. 2
- 9380663495. 3
- 9380663496. 4

Question Number : 74 Question Id : 938066900 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Correct Marks : 2 Wrong Marks : 0

Arrange the following terrestrial biomes in the decreasing order of their global average Net Primary Productivity ($\text{g/m}^2/\text{yr}$).

- A. Boreal Forest
- B. Temperate Grassland
- C. Tropical Forest
- D. Temperate forest
- E. Crops

Choose the correct answer from the options given below:

- 1. C, D, E, B, A
- 2. C, D, B, E, A
- 3. C, B, D, E, A
- 4. A, E, B, D, C

Options :

- 9380663493. 1
- 9380663494. 2
- 9380663495. 3
- 9380663496. 4

Question Number : 75 Question Id : 938066901 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Correct Marks : 2 Wrong Marks : 0

Select the CORRECT statement about CAM plants.

- 1. CAM plants separates CO_2 uptake and Calvin cycle spatially.
- 2. CAM plants separates CO_2 uptake and Calvin cycle temporally.
- 3. CAM pathway is mainly found in the grass family and their stomata are open during the day
- 4. CO_2 concentration in the photosynthetic tissues of CAM plants is lower than that in the atmosphere during the day.

Options :

- 9380663497. 1
- 9380663498. 2
- 9380663499. 3
- 9380663500. 4

Question Number : 75 Question Id : 938066901 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Correct Marks : 2 Wrong Marks : 0

Select the CORRECT statement about CAM plants.

1. CAM plants separates CO₂ uptake and Calvin cycle spatially.
2. CAM plants separates CO₂ uptake and Calvin cycle temporally.
3. CAM pathway is mainly found in the grass family and their stomata are open during the day
4. CO₂ concentration in the photosynthetic tissues of CAM plants is lower than that in the atmosphere during the day.

Options :

- 9380663497. 1
- 9380663498. 2
- 9380663499. 3
- 9380663500. 4

Question Number : 76 Question Id : 938066902 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Correct Marks : 2 Wrong Marks : 0

Select the INCORRECT statement about population growth.

1. In the population with a type I survivorship curve, new borne, juveniles and young adults, all have high survival rates.
2. In the population with a type II survivorship curve, individuals have approximately constant chance of surviving from one generation to the next in their life span.
3. In the population with a type III survivorship curve, death rates are very high for young individuals.
4. Survivorship curves can not vary among population of a species between males and females in a population.

Options :

- 9380663501. 1
- 9380663502. 2
- 9380663503. 3
- 9380663504. 4

Question Number : 76 Question Id : 938066902 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Correct Marks : 2 Wrong Marks : 0

Select the INCORRECT statement about population growth.

1. In the population with a type I survivorship curve, new borne, juveniles and young adults, all have high survival rates.
2. In the population with a type II survivorship curve, individuals have approximately constant chance of surviving from one generation to the next in their life span.
3. In the population with a type III survivorship curve, death rates are very high for young individuals.
4. Survivorship curves can not vary among population of a species between males and females in a population.

Options :

- 9380663501. 1
- 9380663502. 2
- 9380663503. 3
- 9380663504. 4

Question Number : 77 Question Id : 938066903 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Correct Marks : 2 Wrong Marks : 0

The endangered species _____.

1. have a 50% or greater probability of extinction within 10 years
2. have a 50% or greater probability of extinction within 20 years
3. have a 20% or greater probability of extinction within 10 years
4. have a 20% or greater probability of extinction within 20 years

Options :

- 9380663505. 1
- 9380663506. 2
- 9380663507. 3
- 9380663508. 4

Question Number : 77 Question Id : 938066903 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Correct Marks : 2 Wrong Marks : 0

The endangered species _____.

1. have a 50% or greater probability of extinction within 10 years
2. have a 50% or greater probability of extinction within 20 years
3. have a 20% or greater probability of extinction within 10 years
4. have a 20% or greater probability of extinction within 20 years

Options :

- 9380663505. 1
- 9380663506. 2
- 9380663507. 3
- 9380663508. 4

Question Number : 78 Question Id : 938066904 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Correct Marks : 2 Wrong Marks : 0

Consider the following statements about parasites.

- A. Hemiparasite extract water and minerals nutrients from host.
- B. Hemiparasite have green leaves and can photosynthesize.
- C. Hemiparasite do not rely exclusively on the host for carbohydrates
- D. Corn smut fungus is an example of ectoparasite
- E. Ectoparasite does not have ease of dispersal in environment

Choose the correct answer from the options given below:

- 1. A, B and D only
- 2. A, C and D only
- 3. A, B, C and D only
- 4. A, B, C, D and E

Options :

- 9380663509. 1
- 9380663510. 2
- 9380663511. 3
- 9380663512. 4

Question Number : 78 Question Id : 938066904 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Correct Marks : 2 Wrong Marks : 0

Consider the following statements about parasites.

- A. Hemiparasite extract water and minerals nutrients from host.
- B. Hemiparasite have green leaves and can photosynthesize.
- C. Hemiparasite do not rely exclusively on the host for carbohydrates
- D. Corn smut fungus is an example of ectoparasite
- E. Ectoparasite does not have ease of dispersal in environment

Choose the correct answer from the options given below:

- 1. A, B and D only
- 2. A, C and D only
- 3. A, B, C and D only
- 4. A, B, C, D and E

Options :

- 9380663509. 1
- 9380663510. 2
- 9380663511. 3
- 9380663512. 4

Question Number : 79 Question Id : 938066905 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Correct Marks : 2 Wrong Marks : 0

Match the **LIST-I** with **LIST-II**

LIST-I (Class)		LIST-II (Disease)	
A.	Water borne	I.	Trachoma
B.	Water based	II.	Yellow fever
C.	Water washed	III.	Typhoid
D.	Water related	IV.	Schistosomiasis

Choose the *correct* answer from the options given below:

1. A-III, B-II, C-I, D-IV
2. A-II, B-III, C-IV, D-I
3. A-III, B-IV, C-I, D-II
4. A-III, B-II, C-IV, D-I

Options :

- 9380663513. 1
- 9380663514. 2
- 9380663515. 3
- 9380663516. 4

Question Number : 79 Question Id : 938066905 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Correct Marks : 2 Wrong Marks : 0

Match the **LIST-I** with **LIST-II**

LIST-I (Class)		LIST-II (Disease)	
A.	Water borne	I.	Trachoma
B.	Water based	II.	Yellow fever
C.	Water washed	III.	Typhoid
D.	Water related	IV.	Schistosomiasis

Choose the *correct* answer from the options given below:

1. A-III, B-II, C-I, D-IV
2. A-II, B-III, C-IV, D-I
3. A-III, B-IV, C-I, D-II
4. A-III, B-II, C-IV, D-I

Options :

- 9380663513. 1
- 9380663514. 2
- 9380663515. 3
- 9380663516. 4

Question Number : 80 Question Id : 938066906 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Correct Marks : 2 Wrong Marks : 0

A toxic substance is present at 10 mg/l (=10ppm) level in water. Arrange the following subjects (A, B, C, D and E) in decreasing order of their daily dose in ($\text{mg kg}^{-1} \text{ day}^{-1}$) of this substance.

- A. Subject taking 2 liters of water per day and have body weight of 50 kg.
- B. Subject taking 2 liters of water per day and have body weight of 70 kg.
- C. Subject taking 1 liters of water per day and have body weight of 10 kg.
- D. Subject taking 5 liters of water per day and have body weight of 100 kg.
- E. Subject taking 1 liters of water per day and have body weight of 70 kg.

Choose the correct answer from the options given below:

- 1. D, B, A, E, C
- 2. C, D, A, B, E
- 3. D, E, B, A, C
- 4. D, B, E, C, A

Options :

- 9380663517. 1
- 9380663518. 2
- 9380663519. 3
- 9380663520. 4

Question Number : 80 Question Id : 938066906 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Correct Marks : 2 Wrong Marks : 0

A toxic substance is present at 10 mg/l (=10ppm) level in water. Arrange the following subjects (A, B, C, D and E) in decreasing order of their daily dose in ($\text{mg kg}^{-1} \text{ day}^{-1}$) of this substance.

- A. Subject taking 2 liters of water per day and have body weight of 50 kg.
- B. Subject taking 2 liters of water per day and have body weight of 70 kg.
- C. Subject taking 1 liters of water per day and have body weight of 10 kg.
- D. Subject taking 5 liters of water per day and have body weight of 100 kg.
- E. Subject taking 1 liters of water per day and have body weight of 70 kg.

Choose the correct answer from the options given below:

- 1. D, B, A, E, C
- 2. C, D, A, B, E
- 3. D, E, B, A, C
- 4. D, B, E, C, A

Options :

- 9380663517. 1
- 9380663518. 2
- 9380663519. 3
- 9380663520. 4

Question Number : 81 Question Id : 938066907 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Correct Marks : 2 Wrong Marks : 0

Consider the following statements about bioremediation

- A. One of the most common limiting factor for in-situ biodegradation in saturated zone is availability of oxygen.
- B. N and P are common additives which enhance rate of biodegradation.
- C. Bioventing and bio accessibility adversely impact biodegradation in vadose zone.
- D. Methanotropic organism are involved in /example of cometabolism biodegradation.
- E. In-situ biodegradation applications are based only on aerobic biodegradation.

Choose the correct answer from the options given below:

- 1. B, D and E only
- 2. A, B and D only
- 3. A, B, D and E only
- 4. B, C and D only

Options :

- 9380663521. 1
- 9380663522. 2
- 9380663523. 3
- 9380663524. 4

Question Number : 81 Question Id : 938066907 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Correct Marks : 2 Wrong Marks : 0

Consider the following statements about bioremediation

- A. One of the most common limiting factor for in-situ biodegradation in saturated zone is availability of oxygen.
- B. N and P are common additives which enhance rate of biodegradation.
- C. Bioventing and bio accessibility adversely impact biodegradation in vadose zone.
- D. Methanotropic organism are involved in /example of cometabolism biodegradation.
- E. In-situ biodegradation applications are based only on aerobic biodegradation.

Choose the correct answer from the options given below:

- 1. B, D and E only
- 2. A, B and D only
- 3. A, B, D and E only
- 4. B, C and D only

Options :

- 9380663521. 1
- 9380663522. 2
- 9380663523. 3
- 9380663524. 4

Question Number : 82 Question Id : 938066908 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No
Correct Marks : 2 Wrong Marks : 0

In an aquatic system, high consumption rates (herbivores) and relatively short life spans of the primary producers (phytoplankton) result in a inverted pyramid of biomass relative to pyramid of energy. Which of the following are correct?

- A. Biomass of heterotrophs is greater at any given time than biomass of the autotrophs.
- B. Energy produced by autotrophs is greater than that produced by heterotrophs.
- C. Inverted pyramid of biomass are most common in nutrient poor water with low autotroph biomass.
- D. Detritus makes lower proportional contribution to energy flow in nutrient poor water than in nutrient rich water.
- E. Biomass ratio (heterotrophs/autotrophs) of above one indicate inverted pyramid.

Choose the correct answer from the options given below:

- 1. A, B and C only
- 2. A,B, C and E only
- 3. A, D and E only
- 4. A, B, C and D only

Options :

9380663525. 1

9380663526. 2

9380663527. 3

9380663528. 4

Question Number : 82 Question Id : 938066908 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No
Correct Marks : 2 Wrong Marks : 0

In an aquatic system, high consumption rates (herbivores) and relatively short life spans of the primary producers (phytoplankton) result in a inverted pyramid of biomass relative to pyramid of energy. Which of the following are correct?

- A. Biomass of heterotrophs is greater at any given time than biomass of the autotrophs.
- B. Energy produced by autotrophs is greater than that produced by heterotrophs.
- C. Inverted pyramid of biomass are most common in nutrient poor water with low autotroph biomass.
- D. Detritus makes lower proportional contribution to energy flow in nutrient poor water than in nutrient rich water.
- E. Biomass ratio (heterotrophs/autotrophs) of above one indicate inverted pyramid.

Choose the correct answer from the options given below:

- 1. A, B and C only
- 2. A,B, C and E only
- 3. A, D and E only
- 4. A, B, C and D only

Options :

9380663525. 1

9380663526. 2

9380663527. 3

9380663528. 4

Question Number : 83 Question Id : 938066909 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Correct Marks : 2 Wrong Marks : 0

Match the **LIST-I** with **LIST-II**

LIST-I (Soil Type)		LIST-II (Major Characteristics)	
A.	Vertisols	I.	Little profile development, ochric epipedon common
B.	Histosols	II.	Usually formed on volcanic ash dominated by allophane
C.	Entisols	III.	High in swelling clays, deep cracks in dried soils
D.	Andisols	IV.	Undergone little profile development, >20% organic matter

Choose the *correct* answer from the options given below:

- 1. A-II, B-IV, C-III, D-I
- 2. A-I, B-II, C-IV, D-III
- 3. A-III, B-IV, C-I, D-II
- 4. A-IV, B-III, C-II, D-I

Options :

- 9380663529. 1
- 9380663530. 2
- 9380663531. 3
- 9380663532. 4

Question Number : 83 Question Id : 938066909 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Correct Marks : 2 Wrong Marks : 0

Match the **LIST-I** with **LIST-II**

LIST-I (Soil Type)		LIST-II (Major Characteristics)	
A.	Vertisols	I.	Little profile development, ochric epipedon common
B.	Histosols	II.	Usually formed on volcanic ash dominated by allophane
C.	Entisols	III.	High in swelling clays, deep cracks in dried soils
D.	Andisols	IV.	Undergone little profile development, >20% organic matter

Choose the *correct* answer from the options given below:

- 1. A-II, B-IV, C-III, D-I
- 2. A-I, B-II, C-IV, D-III
- 3. A-III, B-IV, C-I, D-II
- 4. A-IV, B-III, C-II, D-I

Options :

- 9380663529. 1
- 9380663530. 2
- 9380663531. 3
- 9380663532. 4

Question Number : 84 Question Id : 938066910 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Correct Marks : 2 Wrong Marks : 0

Match the **LIST-I** with **LIST-II**

LIST-I (Chemical characteristics)		LIST-II (Rock type)	
A.	Phosphate	I.	Bauxite
B.	Sulphate	II.	Stromatolites
C.	Mg-Fe rich silicate	III.	Anhydrite
D.	Al oxyhydroxides	IV.	Basalt

Choose the *correct* answer from the options given below:

1. A-I, B-II, C-III, D-IV
2. A-II, B-III, C-IV, D-I
3. A-III, B-II, C-IV, D-I
4. A-I, B-III, C-II, D-IV

Options :

- 9380663533. 1
- 9380663534. 2
- 9380663535. 3
- 9380663536. 4

Question Number : 84 Question Id : 938066910 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Correct Marks : 2 Wrong Marks : 0

Match the **LIST-I** with **LIST-II**

LIST-I (Chemical characteristics)		LIST-II (Rock type)	
A.	Phosphate	I.	Bauxite
B.	Sulphate	II.	Stromatolites
C.	Mg-Fe rich silicate	III.	Anhydrite
D.	Al oxyhydroxides	IV.	Basalt

Choose the *correct* answer from the options given below:

1. A-I, B-II, C-III, D-IV
2. A-II, B-III, C-IV, D-I
3. A-III, B-II, C-IV, D-I
4. A-I, B-III, C-II, D-IV

Options :

- 9380663533. 1
- 9380663534. 2
- 9380663535. 3
- 9380663536. 4

Question Number : 85 Question Id : 938066911 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Correct Marks : 2 Wrong Marks : 0

How deep into Earth, plate recycling occurs?

1. Crust – mantle boundary
2. Lithosphere –Asthenosphere boundary
3. Upper mantle –lower mantle boundary
4. Mantle-core boundary

Options :

9380663537. 1
9380663538. 2
9380663539. 3
9380663540. 4

Question Number : 85 Question Id : 938066911 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Correct Marks : 2 Wrong Marks : 0

How deep into Earth, plate recycling occurs?

1. Crust – mantle boundary
2. Lithosphere –Asthenosphere boundary
3. Upper mantle –lower mantle boundary
4. Mantle-core boundary

Options :

9380663537. 1
9380663538. 2
9380663539. 3
9380663540. 4

Question Number : 86 Question Id : 938066912 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Correct Marks : 2 Wrong Marks : 0

Match the **LIST-I** with **LIST-II**

LIST-I		LIST-II	
A.	Pressure is enough to allow free flow of water above ground	I.	Cone of depression
B.	Water is withdrawn faster than its replenishment	II.	Piezometric surface
C.	Elevation to which water rises in the aquifer	III.	Artesian well
D.	Zone of water between aquicludes	IV.	Confined water

Choose the *correct* answer from the options given below:

- 1. A-I, B-II, C-III, D-IV
- 2. A-III, B-I, C-II, D-IV
- 3. A-III, B-II, C-I, D-IV
- 4. A-IV, B-III, C-II, D-I

Options :

- 9380663541. 1
- 9380663542. 2
- 9380663543. 3
- 9380663544. 4

Question Number : 86 Question Id : 938066912 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Correct Marks : 2 Wrong Marks : 0

Match the **LIST-I** with **LIST-II**

LIST-I		LIST-II	
A.	Pressure is enough to allow free flow of water above ground	I.	Cone of depression
B.	Water is withdrawn faster than its replenishment	II.	Piezometric surface
C.	Elevation to which water rises in the aquifer	III.	Artesian well
D.	Zone of water between aquicludes	IV.	Confined water

Choose the *correct* answer from the options given below:

1. A-I, B-II, C-III, D-IV
2. A-III, B-I, C-II, D-IV
3. A-III, B-II, C-I, D-IV
4. A-IV, B-III, C-II, D-I

Options :

9380663541. 1
9380663542. 2
9380663543. 3
9380663544. 4

Question Number : 87 Question Id : 938066913 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Correct Marks : 2 Wrong Marks : 0

Read the following statements

- A. In the northern hemisphere Coriolis effect and frictional forces deflect winds to the right, producing clockwise circulation
- B. Principle climatic zones in the world are defined in terms of yearly average precipitation
- C. Altitude, mountains, large bodies of water and ocean currents majorly affect regional climate
- D. Negative values of Southern Oscillation Regional Climate Index are usually associated with El Nino events
- E. La Nina refers to the times when tropical Pacific is warmer than normal

Choose the correct answer from the options given below:

1. A, B, C and D only
2. A, C and D only
3. B, C, D and E only
4. A, B, C and E only

Options :

9380663545. 1
9380663546. 2
9380663547. 3
9380663548. 4

Question Number : 87 Question Id : 938066913 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No
Correct Marks : 2 Wrong Marks : 0

Read the following statements

- A. In the northern hemisphere Coriolis effect and frictional forces deflect winds to the right, producing clockwise circulation
- B. Principle climatic zones in the world are defined in terms of yearly average precipitation
- C. Altitude, mountains, large bodies of water and ocean currents majorly affect regional climate
- D. Negative values of Southern Oscillation Regional Climate Index are usually associated with El Nino events
- E. La Nina refers to the times when tropical Pacific is warmer than normal

Choose the correct answer from the options given below:

- 1. A, B, C and D only
- 2. A, C and D only
- 3. B, C, D and E only
- 4. A, B, C and E only

Options :

- 9380663545. 1
- 9380663546. 2
- 9380663547. 3
- 9380663548. 4

Question Number : 88 Question Id : 938066914 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No
Correct Marks : 2 Wrong Marks : 0

Arrange the following geological/paleoclimate events from oldest to youngest

- A. Setting up of Monsoon climate on the Indian subcontinent
- B. Appearance of Homo Sapiens
- C. Appearance of free oxygen on the earth
- D. Last Glacial Maximum
- E. Deposition of Gondwana coals

Choose the correct answer from the options given below:

- 1. C, E, A, D, B
- 2. E, C, D, A, B
- 3. D, C, E, B, A
- 4. D, C, A, B, E

Options :

- 9380663549. 1
- 9380663550. 2
- 9380663551. 3
- 9380663552. 4

Question Number : 88 Question Id : 938066914 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Correct Marks : 2 Wrong Marks : 0

Arrange the following geological/paleoclimate events from oldest to youngest

- A. Setting up of Monsoon climate on the Indian subcontinent
- B. Appearance of Homo Sapiens
- C. Appearance of free oxygen on the earth
- D. Last Glacial Maximum
- E. Deposition of Gondwana coals

Choose the correct answer from the options given below:

- 1. C, E, A, D, B
- 2. E, C, D, A, B
- 3. D, C, E, B, A
- 4. D, C, A, B, E

Options :

- 9380663549. 1
- 9380663550. 2
- 9380663551. 3
- 9380663552. 4

Question Number : 89 Question Id : 938066915 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Correct Marks : 2 Wrong Marks : 0

The solid organic fraction of _____ are mainly derived from lower plants lacking lignocellulosic tissues.

- 1. Bituminous coal
- 2. Bituminous shales
- 3. Lignite
- 4. Anthracite

Options :

- 9380663553. 1
- 9380663554. 2
- 9380663555. 3
- 9380663556. 4

Question Number : 89 Question Id : 938066915 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Correct Marks : 2 Wrong Marks : 0

The solid organic fraction of _____ are mainly derived from lower plants lacking lignocellulosic tissues.

1. Bituminous coal
2. Bituminous shales
3. Lignite
4. Anthracite

Options :

9380663553. 1
9380663554. 2
9380663555. 3
9380663556. 4

Question Number : 90 Question Id : 938066916 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Correct Marks : 2 Wrong Marks : 0

Which of the following is INCORRECT about nuclear power plants used for energy generation?

1. The only naturally occurring Uranium isotope that can undergo fission is ^{235}U .
2. Control rods in fission reactors are made from Graphite, neutron absorbing element.
3. Breeder reactors produce more fissionable materials than they consume.
4. Thermal breeder reactor converts ^{232}Th by neutron absorption and beta decay into ^{233}U .

Options :

9380663557. 1
9380663558. 2
9380663559. 3
9380663560. 4

Question Number : 90 Question Id : 938066916 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Correct Marks : 2 Wrong Marks : 0

Which of the following is INCORRECT about nuclear power plants used for energy generation?

1. The only naturally occurring Uranium isotope that can undergo fission is ^{235}U .
2. Control rods in fission reactors are made from Graphite, neutron absorbing element.
3. Breeder reactors produce more fissionable materials than they consume.
4. Thermal breeder reactor converts ^{232}Th by neutron absorption and beta decay into ^{233}U .

Options :

9380663557. 1
9380663558. 2
9380663559. 3
9380663560. 4

Question Number : 91 Question Id : 938066917 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Correct Marks : 2 Wrong Marks : 0

Electric power generated from an ideal wind turbines is _____.

1. Proportional to square root of wind velocity
2. proportional to cube of wind velocity
3. proportional to square root of radius of the turbines
4. inversely proportional to density of air

Options :

- 9380663561. 1
- 9380663562. 2
- 9380663563. 3
- 9380663564. 4

Question Number : 91 Question Id : 938066917 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Correct Marks : 2 Wrong Marks : 0

Electric power generated from an ideal wind turbines is _____.

1. Proportional to square root of wind velocity
2. proportional to cube of wind velocity
3. proportional to square root of radius of the turbines
4. inversely proportional to density of air

Options :

- 9380663561. 1
- 9380663562. 2
- 9380663563. 3
- 9380663564. 4

Question Number : 92 Question Id : 938066918 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Correct Marks : 2 Wrong Marks : 0

Arrange the following carbonaceous fuels in increasing order of their atomic H/C values

- A. Petroleum
- B. Peat
- C. Methane
- D. Lignite
- E. Anthracite

Choose the correct answer from the options given below:

- 1. A, C, B, D, E
- 2. B, A, D, C, E
- 3. C, A, B, D, E
- 4. E, D, B, A, C

Options :

- 9380663565. 1
- 9380663566. 2
- 9380663567. 3
- 9380663568. 4

Question Number : 92 Question Id : 938066918 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Correct Marks : 2 Wrong Marks : 0

Arrange the following carbonaceous fuels in increasing order of their atomic H/C values

- A. Petroleum
- B. Peat
- C. Methane
- D. Lignite
- E. Anthracite

Choose the correct answer from the options given below:

- 1. A, C, B, D, E
- 2. B, A, D, C, E
- 3. C, A, B, D, E
- 4. E, D, B, A, C

Options :

- 9380663565. 1
- 9380663566. 2
- 9380663567. 3
- 9380663568. 4

Question Number : 93 Question Id : 938066919 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Correct Marks : 2 Wrong Marks : 0

Which of the following are NOT a nuclear fuel minerals?

1. Anglesite
2. Pitch blende
3. Carnotite
4. Monazite

Options :

9380663569. 1
9380663570. 2
9380663571. 3
9380663572. 4

Question Number : 93 Question Id : 938066919 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Correct Marks : 2 Wrong Marks : 0

Which of the following are NOT a nuclear fuel minerals?

1. Anglesite
2. Pitch blende
3. Carnotite
4. Monazite

Options :

9380663569. 1
9380663570. 2
9380663571. 3
9380663572. 4

Question Number : 94 Question Id : 938066920 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Correct Marks : 2 Wrong Marks : 0

Choose the INCORRECT statement about Global warming?

1. Atmospheric particles can only exert direct radiative forcing
2. Complete combustion of fossil fuel too contribute to global warming.
3. Action of greenhouse gas is opposed by trace gases derived from sulfur compounds.
4. There has been instances of polar amplification of warming.

Options :

9380663573. 1
9380663574. 2
9380663575. 3
9380663576. 4

Question Number : 94 Question Id : 938066920 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Correct Marks : 2 Wrong Marks : 0

Choose the **INCORRECT** statement about Global warming?

1. Atmospheric particles can only exert direct radiative forcing
2. Complete combustion of fossil fuel too contribute to global warning.
3. Action of greenhouse gas is opposed by trace gases derived from sulfur compounds.
4. There has been instances of polar amplification of warming.

Options :

9380663573. 1
9380663574. 2
9380663575. 3
9380663576. 4

Question Number : 95 Question Id : 938066921 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Correct Marks : 2 Wrong Marks : 0

Match the **LIST-I** with **LIST-II**

LIST-I (Coal Lithotypes)		LIST-II (Composition)	
A.	Vitrain	I.	Mainly inertinite and exinite macerals
B.	Cannel coal	II.	Mainly fusinite
C.	Durain	III.	Vitrinite macerals with <20% exinite macerals
D.	Fusain	IV.	Dominated by alginite

Choose the **correct** answer from the options given below:

1. A-I, B-II, C-IV, D-III
2. A-III, B-I, C-IV, D-II
3. A-III, B-IV, C-I, D-II
4. A-IV, B-II, C-III, D-I

Options :

9380663577. 1
9380663578. 2
9380663579. 3
9380663580. 4

Question Number : 95 Question Id : 938066921 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Correct Marks : 2 Wrong Marks : 0

Match the **LIST-I** with **LIST-II**

LIST-I (Coal Lithotypes)		LIST-II (Composition)	
A.	Vitrain	I.	Mainly inertinite and exinite macerals
B.	Cannel coal	II.	Mainly fusinite
C.	Durain	III.	Vitrinite macerals with <20% exinite macerals
D.	Fusain	IV.	Dominated by alginite

Choose the *correct* answer from the options given below:

1. A-I, B-II, C-IV, D-III
2. A-III, B-I, C-IV, D-II
3. A-III, B-IV, C-I, D-II
4. A-IV, B-II, C-III, D-I

Options :

- 9380663577. 1
- 9380663578. 2
- 9380663579. 3
- 9380663580. 4

Question Number : 96 Question Id : 938066922 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Correct Marks : 2 Wrong Marks : 0

Choose the **INCORRECT** statement about solar ponds.

1. Most common heat transfer fluid for a solar system is water.
2. Solar ponds must have salinity gradient with depth to collect and optimally store the energy.
3. Solar ponds store energy in upper convective zone (salinity <5%).
4. Solubility of salt in solar ponds should not vary appreciably with temperature.

Options :

- 9380663581. 1
- 9380663582. 2
- 9380663583. 3
- 9380663584. 4

Question Number : 96 Question Id : 938066922 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Correct Marks : 2 Wrong Marks : 0

Choose the INCORRECT statement about solar ponds.

1. Most common heat transfer fluid for a solar system is water.
2. Solar ponds must have salinity gradient with depth to collect and optimally store the energy.
3. Solar ponds store energy in upper convective zone (salinity <5%).
4. Solubility of salt in solar ponds should not vary appreciably with temperature.

Options :

- 9380663581. 1
- 9380663582. 2
- 9380663583. 3
- 9380663584. 4

Question Number : 97 Question Id : 938066923 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Correct Marks : 2 Wrong Marks : 0

Choose the INCORRECT statement

1. Components of air quality standards are the indicator, an averaging time, the form and the level.
2. Primary air quality standards are more restrictive than the secondary.
3. Primary and Secondary air quality standards are periodically reviewed every year.
4. Agriculture operations and urban centers are examples of distributed sources of air pollution.

Options :

- 9380663585. 1
- 9380663586. 2
- 9380663587. 3
- 9380663588. 4

Question Number : 97 Question Id : 938066923 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Correct Marks : 2 Wrong Marks : 0

Choose the INCORRECT statement

1. Components of air quality standards are the indicator, an averaging time, the form and the level.
2. Primary air quality standards are more restrictive than the secondary.
3. Primary and Secondary air quality standards are periodically reviewed every year.
4. Agriculture operations and urban centers are examples of distributed sources of air pollution.

Options :

- 9380663585. 1
- 9380663586. 2
- 9380663587. 3
- 9380663588. 4

Question Number : 98 Question Id : 938066924 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Correct Marks : 2 Wrong Marks : 0

Convert the concentration of the following gases in $\mu\text{g}/\text{m}^3$ unit and arrange them in increasing order of their concentration in $\mu\text{g}/\text{m}^3$ in ambient atmosphere at 25°C . Consider the gases follow ideal gas law.

- A. 1 ppm of O_3
- B. 1 ppm of SO_2
- C. 4 ppm of NH_3
- D. 1 ppm of CO
- E. 1ppm of CO_2

Choose the correct answer from the options given below:

- 1. E, D, A, B, C
- 2. D, E, A, C, B
- 3. B, C, A, D, E
- 4. C, D, E, B, A

Options :

- 9380663589. 1
- 9380663590. 2
- 9380663591. 3
- 9380663592. 4

Question Number : 98 Question Id : 938066924 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Correct Marks : 2 Wrong Marks : 0

Convert the concentration of the following gases in $\mu\text{g}/\text{m}^3$ unit and arrange them in increasing order of their concentration in $\mu\text{g}/\text{m}^3$ in ambient atmosphere at 25°C . Consider the gases follow ideal gas law.

- A. 1 ppm of O_3
- B. 1 ppm of SO_2
- C. 4 ppm of NH_3
- D. 1 ppm of CO
- E. 1ppm of CO_2

Choose the correct answer from the options given below:

- 1. E, D, A, B, C
- 2. D, E, A, C, B
- 3. B, C, A, D, E
- 4. C, D, E, B, A

Options :

- 9380663589. 1
- 9380663590. 2
- 9380663591. 3
- 9380663592. 4

Question Number : 99 Question Id : 938066925 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No

Correct Marks : 2 Wrong Marks : 0

The Gaussian Plume Equation is given as below:

$$C(x, y) = \frac{Q}{\pi \mu \sigma_y \sigma_z} \left(\exp \frac{-H^2}{2 \sigma_z^2} \right) \left(\exp \frac{-y^2}{2 \sigma_y^2} \right)$$

Which of the following statements are correct?

- A. σ_y and σ_z are standard deviations of vertical and horizontal Gaussian distributions, respectively.
- B. Smaller values of the dispersion coefficients will give broader Gaussian curve.
- C. As we move downwind from the stack, the Gaussian curve spread further.
- D. As we move downwind from the stack, the dispersion coefficients become larger.
- E. Above equation is uniformly applicable to any terrain and temperature profile of atmosphere.

Choose the correct answer from the options given below:

- 1. A, B and C only
- 2. C and D Only
- 3. B, D and E Only
- 4. C, D and E Only

Options :

9380663593. 1

9380663594. 2

9380663595. 3

9380663596. 4

Question Number : 99 Question Id : 938066925 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No

Correct Marks : 2 Wrong Marks : 0

The Gaussian Plume Equation is given as below:

$$C(x, y) = \frac{Q}{\pi \mu \sigma_y \sigma_z} \left(\exp \frac{-H^2}{2 \sigma_z^2} \right) \left(\exp \frac{-y^2}{2 \sigma_y^2} \right)$$

Which of the following statements are correct?

- A. σ_y and σ_z are standard deviations of vertical and horizontal Gaussian distributions, respectively.
- B. Smaller values of the dispersion coefficients will give broader Gaussian curve.
- C. As we move downwind from the stack, the Gaussian curve spread further.
- D. As we move downwind from the stack, the dispersion coefficients become larger.
- E. Above equation is uniformly applicable to any terrain and temperature profile of atmosphere.

Choose the correct answer from the options given below:

- 1. A, B and C only
- 2. C and D Only
- 3. B, D and E Only
- 4. C, D and E Only

Options :

- 9380663593. 1
- 9380663594. 2
- 9380663595. 3
- 9380663596. 4

Question Number : 100 Question Id : 938066926 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Correct Marks : 2 Wrong Marks : 0

Choose the correct mathematical expressions related to noise.

- A. Sound power (w) = Sound intensity (I) x Area (A)
- B. Sound period and frequency are inversely related
- C. Speed of sound in air, $C = 20.05 (\text{Temperature})^2$
- D. $L = 10 \log \frac{\text{measured quantity (Q)}}{\text{reference quantity}(Q_0)}$
- E. $I = \frac{(Prms)^2}{\rho c}$

Choose the correct answer from the options given below:

- 1. A, B, C and D Only
- 2. B, C, D and E Only
- 3. A, B, D and E Only
- 4. A, B, C and E Only

Options :

- 9380663597. 1
- 9380663598. 2
- 9380663599. 3
- 9380663600. 4

Question Number : 100 Question Id : 938066926 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Correct Marks : 2 Wrong Marks : 0

Choose the correct mathematical expressions related to noise.

- A. Sound power (w) = Sound intensity (I) x Area (A)
- B. Sound period and frequency are inversely related
- C. Speed of sound in air, $C = 20.05 (\text{Temperature})^2$
- D. $L = 10 \log \frac{\text{measured quantity (Q)}}{\text{reference quantity}(Q_0)}$
- E. $I = \frac{(Prms)^2}{\rho c}$

Choose the correct answer from the options given below:

- 1. A, B, C and D Only
- 2. B, C, D and E Only
- 3. A, B, D and E Only
- 4. A, B, C and E Only

Options :

- 9380663597. 1
- 9380663598. 2
- 9380663599. 3
- 9380663600. 4

Question Number : 101 Question Id : 938066927 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Correct Marks : 2 Wrong Marks : 0

Match the **LIST-I** with **LIST-II**

LIST-I Substance		LIST-II Application	
A.	Magnesium hydroxide; $pK_s= 11.2$	I.	Coagulation
B.	Calcium carbonate; $pK_s= 8.3$	II.	Coagulation and iron removal
C.	Ferric hydroxide; $pK_s=38.5$	III.	Softening, corrosion control
D.	Aluminum hydroxide; $pK_s= 33$	IV.	Softening

Choose the *correct* answer from the options given below:

1. A-I, B-III, C-II, D-IV
2. A-IV, B-II, C-III, D-I
3. A-IV, B-III, C-II, D-I
4. A-III, B-IV, C-I, D-II

Options :

- 9380663601. 1
- 9380663602. 2
- 9380663603. 3
- 9380663604. 4

Question Number : 101 Question Id : 938066927 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Correct Marks : 2 Wrong Marks : 0

Match the **LIST-I** with **LIST-II**

LIST-I Substance		LIST-II Application	
A.	Magnesium hydroxide; $pK_s= 11.2$	I.	Coagulation
B.	Calcium carbonate; $pK_s= 8.3$	II.	Coagulation and iron removal
C.	Ferric hydroxide; $pK_s=38.5$	III.	Softening, corrosion control
D.	Aluminum hydroxide; $pK_s= 33$	IV.	Softening

Choose the *correct* answer from the options given below:

1. A-I, B-III, C-II, D-IV
2. A-IV, B-II, C-III, D-I
3. A-IV, B-III, C-II, D-I
4. A-III, B-IV, C-I, D-II

Options :

- 9380663601. 1
- 9380663602. 2
- 9380663603. 3
- 9380663604. 4

Question Number : 102 Question Id : 938066928 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Correct Marks : 2 Wrong Marks : 0

From the analysis of water given below, calculate the amount of lime and soda (in mg/l as CaCO_3) necessary to soften water to 90.0 mg/l as CaCO_3 :

Composition of water (mg/l as CaCO_3)		
$\text{Ca}^{2+} = 159.2$	$\text{CO}_2 = 29.3$	$\text{HCO}_3^- = 195.0$
$\text{Mg}^{2+} = 75.8$		$\text{SO}_4^- = 39.8$
$\text{Na}^+ = 27.4$		$\text{Cl}^- = 27.6$

1. ~ 235 and ~ 60
2. ~ 296 and no soda ash
3. ~ 262 and ~ 34
4. ~ 235 and no soda ash

Options :

9380663605. 1
9380663606. 2
9380663607. 3
9380663608. 4

Question Number : 102 Question Id : 938066928 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Correct Marks : 2 Wrong Marks : 0

From the analysis of water given below, calculate the amount of lime and soda (in mg/l as CaCO_3) necessary to soften water to 90.0 mg/l as CaCO_3 :

Composition of water (mg/l as CaCO_3)		
$\text{Ca}^{2+} = 159.2$	$\text{CO}_2 = 29.3$	$\text{HCO}_3^- = 195.0$
$\text{Mg}^{2+} = 75.8$		$\text{SO}_4^- = 39.8$
$\text{Na}^+ = 27.4$		$\text{Cl}^- = 27.6$

1. ~ 235 and ~ 60
2. ~ 296 and no soda ash
3. ~ 262 and ~ 34
4. ~ 235 and no soda ash

Options :

9380663605. 1
9380663606. 2
9380663607. 3
9380663608. 4

Question Number : 103 Question Id : 938066929 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Correct Marks : 2 Wrong Marks : 0

In an absorbed dose of 0.2 Gy of slow neutron radiation produces the same biological effect as 2 Gy of gamma radiation, then the relative biological effectiveness for slow neutron would be _____.

1. 2.2
2. 0.1
3. 0.2
4. 10

Options :

9380663609. 1
9380663610. 2
9380663611. 3
9380663612. 4

Question Number : 103 Question Id : 938066929 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Correct Marks : 2 Wrong Marks : 0

In an absorbed dose of 0.2 Gy of slow neutron radiation produces the same biological effect as 2 Gy of gamma radiation, then the relative biological effectiveness for slow neutron would be _____.

1. 2.2
2. 0.1
3. 0.2
4. 10

Options :

9380663609. 1
9380663610. 2
9380663611. 3
9380663612. 4

Question Number : 104 Question Id : 938066930 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Correct Marks : 2 Wrong Marks : 0

Choose the INCORRECT statement about lakes

1. Hypolimnion in lake is poorly mixed compared to Epilimnion.
2. As summer progresses, stability increases because epilimnion continues to warm while hypolimnion remain at fairly constant temperature.
3. Temperate lakes always have at least one cycles of stratification and turnover every year.
4. Lake stratification and turnover often causes eutrophication and is not good for health of lakes.

Options :

9380663613. 1
9380663614. 2
9380663615. 3
9380663616. 4

Question Number : 104 Question Id : 938066930 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No
Correct Marks : 2 Wrong Marks : 0

Choose the INCORRECT statement about lakes

1. Hypolimnion in lake is poorly mixed compared to Epilimnion.
2. As summer progresses, stability increases because epilimnion continues to warm while hypolimnion remain at fairly constant temperature.
3. Temperate lakes always have at least one cycles of stratification and turnover every year.
4. Lake stratification and turnover often causes eutrophication and is not good for health of lakes.

Options :

- 9380663613. 1
- 9380663614. 2
- 9380663615. 3
- 9380663616. 4

Question Number : 105 Question Id : 938066931 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No
Correct Marks : 2 Wrong Marks : 0

Choose the INCORRECT statement

1. Clay particles act as colloids in water.
2. The pH of soils tends to buffer against large increase in pH as they have reserve acidity
3. Precipitation reactions does not help in retaining heavy metals in soils
4. Replacement of natural long rooted vegetation by wheat and other shallow rooted crops can increase soil salinity

Options :

- 9380663617. 1
- 9380663618. 2
- 9380663619. 3
- 9380663620. 4

Question Number : 105 Question Id : 938066931 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No
Correct Marks : 2 Wrong Marks : 0

Choose the INCORRECT statement

1. Clay particles act as colloids in water.
2. The pH of soils tends to buffer against large increase in pH as they have reserve acidity
3. Precipitation reactions does not help in retaining heavy metals in soils
4. Replacement of natural long rooted vegetation by wheat and other shallow rooted crops can increase soil salinity

Options :

- 9380663617. 1
- 9380663618. 2
- 9380663619. 3
- 9380663620. 4

Question Number : 106 Question Id : 938066932 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No
Correct Marks : 2 Wrong Marks : 0

Choose the CORRECT statements about air pollution control methods.

- A. Impaction of particles is directly proportional to particle density and diameter squared.
- B. Probability of resuspension of particles is inversely proportional to particle diameter.
- C. In cyclones, force produced by rotational motion of fluid is directly proportional to square of terminal velocity.
- D. Activated alumina and sulfuric acid are common water vapor collection materials used in demisters.
- E. Bag houses dust collector does not work on the principle of sedimentation and electrostatic attraction of particles.

Choose the correct answer from the options given below:

- 1. A, B, C and D only
- 2. A, B, C and E only
- 3. A, C and D only
- 4. A, C, D and E only

Options :

- 9380663621. 1
- 9380663622. 2
- 9380663623. 3
- 9380663624. 4

Question Number : 106 Question Id : 938066932 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No
Correct Marks : 2 Wrong Marks : 0

Choose the CORRECT statements about air pollution control methods.

- A. Impaction of particles is directly proportional to particle density and diameter squared.
- B. Probability of resuspension of particles is inversely proportional to particle diameter.
- C. In cyclones, force produced by rotational motion of fluid is directly proportional to square of terminal velocity.
- D. Activated alumina and sulfuric acid are common water vapor collection materials used in demisters.
- E. Bag houses dust collector does not work on the principle of sedimentation and electrostatic attraction of particles.

Choose the correct answer from the options given below:

- 1. A, B, C and D only
- 2. A, B, C and E only
- 3. A, C and D only
- 4. A, C, D and E only

Options :

- 9380663621. 1
- 9380663622. 2
- 9380663623. 3
- 9380663624. 4

Question Number : 107 Question Id : 938066933 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No
Correct Marks : 2 Wrong Marks : 0

Choose the INCORRECT statement about heat islands.

- 1. Low surface albedo is a likely cause of urban heat
- 2. Surface albedo is also referred to as shortwave reflectivity.
- 3. Shading and evapotranspiration by urban forestry cause urban heating
- 4. Cool roofs/green roofs have high reflectivity and cause urban cooling.

Options :

- 9380663625. 1
- 9380663626. 2
- 9380663627. 3
- 9380663628. 4

Question Number : 107 Question Id : 938066933 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Correct Marks : 2 Wrong Marks : 0

Choose the INCORRECT statement about heat islands.

1. Low surface albedo is a likely cause of urban heat
2. Surface albedo is also referred to as shortwave reflectivity.
3. Shading and evapotranspiration by urban forestry cause urban heating
4. Cool roofs/green roofs have high reflectivity and cause urban cooling.

Options :

- 9380663625. 1
- 9380663626. 2
- 9380663627. 3
- 9380663628. 4

Question Number : 108 Question Id : 938066934 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Correct Marks : 2 Wrong Marks : 0

Which of the following is NOT true for composting of waste?

1. Moisture should not be present.
2. Particle size must be less than 5 cm.
3. Compost increases moisture holding capacity of soil.
4. Carbon to nitrogen ratio must be in the range of 20-25 to 1.

Options :

- 9380663629. 1
- 9380663630. 2
- 9380663631. 3
- 9380663632. 4

Question Number : 108 Question Id : 938066934 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Correct Marks : 2 Wrong Marks : 0

Which of the following is NOT true for composting of waste?

1. Moisture should not be present.
2. Particle size must be less than 5 cm.
3. Compost increases moisture holding capacity of soil.
4. Carbon to nitrogen ratio must be in the range of 20-25 to 1.

Options :

- 9380663629. 1
- 9380663630. 2
- 9380663631. 3
- 9380663632. 4

Question Number : 109 Question Id : 938066935 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No
Correct Marks : 2 Wrong Marks : 0

Which of the following process in gassification of waste is endothermic?

1. $C + O_2 \rightarrow CO_2$
2. $C + H_2O \rightarrow CO + H_2$
3. $C + 2H_2 \rightarrow CH_4$
4. $2C + O_2 \rightarrow 2CO$

Options :

9380663633. 1
9380663634. 2
9380663635. 3
9380663636. 4

Question Number : 109 Question Id : 938066935 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No
Correct Marks : 2 Wrong Marks : 0

Which of the following process in gassification of waste is endothermic?

1. $C + O_2 \rightarrow CO_2$
2. $C + H_2O \rightarrow CO + H_2$
3. $C + 2H_2 \rightarrow CH_4$
4. $2C + O_2 \rightarrow 2CO$

Options :

9380663633. 1
9380663634. 2
9380663635. 3
9380663636. 4

Question Number : 110 Question Id : 938066936 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Correct Marks : 2 Wrong Marks : 0

Choose the CORRECT statements

- A. Thermosetting plastic is easier to recycle compared to thermoplastic
- B. Microplastic include plastic size less than 5 μm only
- C. Thermal depolymerisation involves the conversion of assorted polymers into petroleum.
- D. Incineration is not an environment friendly option to dispose plastic waste
- E. Recycled PET can be used effectively for making variety of fabrics

Choose the correct answer from the options given below:

- 1. A, C and E Only
- 2. C, D and E Only
- 3. B, C, D and E Only
- 4. A, D and E Only

Options :

- 9380663637. 1
- 9380663638. 2
- 9380663639. 3
- 9380663640. 4

Question Number : 110 Question Id : 938066936 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Correct Marks : 2 Wrong Marks : 0

Choose the CORRECT statements

- A. Thermosetting plastic is easier to recycle compared to thermoplastic
- B. Microplastic include plastic size less than 5 μm only
- C. Thermal depolymerisation involves the conversion of assorted polymers into petroleum.
- D. Incineration is not an environment friendly option to dispose plastic waste
- E. Recycled PET can be used effectively for making variety of fabrics

Choose the correct answer from the options given below:

- 1. A, C and E Only
- 2. C, D and E Only
- 3. B, C, D and E Only
- 4. A, D and E Only

Options :

- 9380663637. 1
- 9380663638. 2
- 9380663639. 3
- 9380663640. 4

Question Number : 111 Question Id : 938066937 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Correct Marks : 2 Wrong Marks : 0

Which of the following is NOT an element and component of hazard and risk assessment of waste?

1. Process knowledge and documentation
2. Process and equipment integrity
3. Reduction in use of hazardous substances
4. Standards, codes, laws and practices

Options :

- 9380663641. 1
- 9380663642. 2
- 9380663643. 3
- 9380663644. 4

Question Number : 111 Question Id : 938066937 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Correct Marks : 2 Wrong Marks : 0

Which of the following is NOT an element and component of hazard and risk assessment of waste?

1. Process knowledge and documentation
2. Process and equipment integrity
3. Reduction in use of hazardous substances
4. Standards, codes, laws and practices

Options :

- 9380663641. 1
- 9380663642. 2
- 9380663643. 3
- 9380663644. 4

Question Number : 112 Question Id : 938066938 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Correct Marks : 2 Wrong Marks : 0

Arrange the following unit processes of sludge treatment from first to the last

- A. Stabilization
- B. Dewatering
- C. Conditioning
- D. Thickening
- E. Reduction

Choose the correct answer from the options given below:

- 1. B, C, A, E, D
- 2. D, C, A, E, B
- 3. A, D, B, C, E
- 4. D, A, C, B, E

Options :

- 9380663645. 1
- 9380663646. 2
- 9380663647. 3
- 9380663648. 4

Question Number : 112 Question Id : 938066938 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Correct Marks : 2 Wrong Marks : 0

Arrange the following unit processes of sludge treatment from first to the last

- A. Stabilization
- B. Dewatering
- C. Conditioning
- D. Thickening
- E. Reduction

Choose the correct answer from the options given below:

- 1. B, C, A, E, D
- 2. D, C, A, E, B
- 3. A, D, B, C, E
- 4. D, A, C, B, E

Options :

- 9380663645. 1
- 9380663646. 2
- 9380663647. 3
- 9380663648. 4

Question Number : 113 Question Id : 938066939 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Correct Marks : 2 Wrong Marks : 0

Arrange the following major stages of waste degradation in landfills starting from the first to the last

- A. Oxidation
- B. Aerobic degradation
- C. Acetogenesis
- D. Hydrolysis and fermentation
- E. Methanogenesis

Choose the correct answer from the options given below:

- 1. B, A, C, E, D
- 2. A, B, C, D, E
- 3. B, D, C, E, A
- 4. D, B, A, E, C

Options :

- 9380663649. 1
- 9380663650. 2
- 9380663651. 3
- 9380663652. 4

Question Number : 113 Question Id : 938066939 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Correct Marks : 2 Wrong Marks : 0

Arrange the following major stages of waste degradation in landfills starting from the first to the last

- A. Oxidation
- B. Aerobic degradation
- C. Acetogenesis
- D. Hydrolysis and fermentation
- E. Methanogenesis

Choose the correct answer from the options given below:

- 1. B, A, C, E, D
- 2. A, B, C, D, E
- 3. B, D, C, E, A
- 4. D, B, A, E, C

Options :

- 9380663649. 1
- 9380663650. 2
- 9380663651. 3
- 9380663652. 4

Question Number : 114 Question Id : 938066940 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Correct Marks : 2 Wrong Marks : 0

Choose the CORRECT statements about biological degradation of waste:

- A. End product of biological degradation is always less toxic than parent compound.
- B. pH of soils play vital role and at low pH fungi dominates and likely to form epoxide.
- C. Persistence is a 'conditional' property of biodegradable compounds.
- D. Mineralization is the complete conversion of an organic compound to the end products of CO₂ and water.
- E. Recalcitrant compounds cannot be biodegraded under any circumstances.

Choose the correct answer from the options given below:

- 1. A, B and C Only
- 2. B, C and D Only
- 3. B, C, D and E Only
- 4. A, B, C and D Only

Options :

- 9380663653. 1
- 9380663654. 2
- 9380663655. 3
- 9380663656. 4

Question Number : 114 Question Id : 938066940 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Correct Marks : 2 Wrong Marks : 0

Choose the CORRECT statements about biological degradation of waste:

- A. End product of biological degradation is always less toxic than parent compound.
- B. pH of soils play vital role and at low pH fungi dominates and likely to form epoxide.
- C. Persistence is a 'conditional' property of biodegradable compounds.
- D. Mineralization is the complete conversion of an organic compound to the end products of CO₂ and water.
- E. Recalcitrant compounds cannot be biodegraded under any circumstances.

Choose the correct answer from the options given below:

- 1. A, B and C Only
- 2. B, C and D Only
- 3. B, C, D and E Only
- 4. A, B, C and D Only

Options :

- 9380663653. 1
- 9380663654. 2
- 9380663655. 3
- 9380663656. 4

Question Number : 115 Question Id : 938066941 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Correct Marks : 2 Wrong Marks : 0

Match the **LIST-I** with **LIST-II**

LIST-I Earthworm type		LIST-II Name	
A.	Common field worm	I.	<i>Helodrilus chloroticus</i>
B.	Manure worm	II.	<i>Diplocardia verrucosa</i>
C.	Green worm	III.	<i>Helodrilus caliginosus</i>
D.	Slim earthworm	IV.	<i>Eisenia foetida</i>

Choose the **correct** answer from the options given below:

1. A-IV, B-III, C-II, D-I
2. A-III, B-IV, C-I, D-II
3. A-IV, B-I, C-II, D-III
4. A-II, B-I, C-IV, D-III

Options :

9380663657. 1
9380663658. 2
9380663659. 3
9380663660. 4

Question Number : 115 Question Id : 938066941 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Correct Marks : 2 Wrong Marks : 0

Match the **LIST-I** with **LIST-II**

LIST-I Earthworm type		LIST-II Name	
A.	Common field worm	I.	<i>Helodrilus chloroticus</i>
B.	Manure worm	II.	<i>Diplocardia verrucosa</i>
C.	Green worm	III.	<i>Helodrilus caliginosus</i>
D.	Slim earthworm	IV.	<i>Eisenia foetida</i>

Choose the **correct** answer from the options given below:

1. A-IV, B-III, C-II, D-I
2. A-III, B-IV, C-I, D-II
3. A-IV, B-I, C-II, D-III
4. A-II, B-I, C-IV, D-III

Options :

9380663657. 1
9380663658. 2
9380663659. 3
9380663660. 4

Question Number : 116 Question Id : 938066942 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Correct Marks : 2 Wrong Marks : 0

Which of the following is INCORRECT compositionally?

1. Rubbish does not contain garbage
2. Refuse contain both rubbish and garbage
3. Garbage contain both garbage and rubbish
4. Refuse have less water content (%) than garbage

Options :

9380663661. 1
9380663662. 2
9380663663. 3
9380663664. 4

Question Number : 116 Question Id : 938066942 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Correct Marks : 2 Wrong Marks : 0

Which of the following is INCORRECT compositionally?

1. Rubbish does not contain garbage
2. Refuse contain both rubbish and garbage
3. Garbage contain both garbage and rubbish
4. Refuse have less water content (%) than garbage

Options :

9380663661. 1
9380663662. 2
9380663663. 3
9380663664. 4

Question Number : 117 Question Id : 938066943 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Correct Marks : 2 Wrong Marks : 0

Which of the following best explains the rationale behind categorizing projects as Category A and Category B in the EIA Notification of 2006?

1. To allow public opinion to assess project approval.
2. To delegate simpler projects to state authorities and complex ones to the central government.
3. To ensure equal distribution of environmental responsibility.
4. To minimize delays in industrial development and national interest.

Options :

9380663665. 1
9380663666. 2
9380663667. 3
9380663668. 4

Question Number : 117 Question Id : 938066943 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Correct Marks : 2 Wrong Marks : 0

Which of the following best explains the rationale behind categorizing projects as Category A and Category B in the EIA Notification of 2006?

1. To allow public opinion to assess project approval.
2. To delegate simpler projects to state authorities and complex ones to the central government.
3. To ensure equal distribution of environmental responsibility.
4. To minimize delays in industrial development and national interest.

Options :

- 9380663665. 1
- 9380663666. 2
- 9380663667. 3
- 9380663668. 4

Question Number : 118 Question Id : 938066944 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Correct Marks : 2 Wrong Marks : 0

Which of the following is not among the four stages of risk assessment?

1. Dose – response assessment
2. Exposure assessment
3. Hazard identification
4. Risk management

Options :

- 9380663669. 1
- 9380663670. 2
- 9380663671. 3
- 9380663672. 4

Question Number : 118 Question Id : 938066944 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Correct Marks : 2 Wrong Marks : 0

Which of the following is not among the four stages of risk assessment?

1. Dose – response assessment
2. Exposure assessment
3. Hazard identification
4. Risk management

Options :

- 9380663669. 1
- 9380663670. 2
- 9380663671. 3
- 9380663672. 4

Question Number : 119 Question Id : 938066945 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Correct Marks : 2 Wrong Marks : 0

Which of the following judicial principle has often been involved by Indian courts to uphold environmental clearance requirements under EIA?

1. Caveat Emptor
2. Eminent Domain
3. Precautionary Principle
4. Strict Liability

Options :

9380663673. 1
9380663674. 2
9380663675. 3
9380663676. 4

Question Number : 119 Question Id : 938066945 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Correct Marks : 2 Wrong Marks : 0

Which of the following judicial principle has often been involved by Indian courts to uphold environmental clearance requirements under EIA?

1. Caveat Emptor
2. Eminent Domain
3. Precautionary Principle
4. Strict Liability

Options :

9380663673. 1
9380663674. 2
9380663675. 3
9380663676. 4

Question Number : 120 Question Id : 938066946 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Correct Marks : 2 Wrong Marks : 0

The Principle of Absolute Liability, evolved in Indian environmental jurisprudence, is primarily associated with which of the following landmark case?

1. Indian Council of Enviro-legal action Vs Union of India (1996)
2. M.C. Mehta Vs Kamal Nath (1997)
3. M.C. Mehta Vs Union of India (Oleum Gas leak, 1987)
4. Vellore Citizens Welfare Forum Vs Union of India (1996)

Options :

9380663677. 1
9380663678. 2
9380663679. 3
9380663680. 4

Question Number : 120 Question Id : 938066946 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Correct Marks : 2 Wrong Marks : 0

The Principle of Absolute Liability, evolved in Indian environmental jurisprudence, is primarily associated with which of the following landmark case?

1. Indian Council of Enviro-legal action Vs Union of India (1996)
2. M.C. Mehta Vs Kamal Nath (1997)
3. M.C. Mehta Vs Union of India (Oleum Gas leak, 1987)
4. Vellore Citizens Welfare Forum Vs Union of India (1996)

Options :

9380663677. 1
9380663678. 2
9380663679. 3
9380663680. 4

Question Number : 121 Question Id : 938066947 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Correct Marks : 2 Wrong Marks : 0

Arrange the following steps of an idealized EIA process in order of execution

- A. Assessment
- B. Audit
- C. Decision Making
- D. Evaluation
- E. Mitigation

Choose the correct answer from the options given below:

1. A, D, E, C, B
2. B, D, A, C, E
3. A, B, D, C, E
4. A, D, E, B, C

Options :

9380663681. 1
9380663682. 2
9380663683. 3
9380663684. 4

Question Number : 121 Question Id : 938066947 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Correct Marks : 2 Wrong Marks : 0

Arrange the following steps of an idealized EIA process in order of execution

- A. Assessment
- B. Audit
- C. Decision Making
- D. Evaluation
- E. Mitigation

Choose the correct answer from the options given below:

- 1. A, D, E, C, B
- 2. B, D, A, C, E
- 3. A, B, D, C, E
- 4. A, D, E, B, C

Options :

- 9380663681. 1
- 9380663682. 2
- 9380663683. 3
- 9380663684. 4

Question Number : 122 Question Id : 938066948 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Correct Marks : 2 Wrong Marks : 0

Arrange the following in chronological order as per their year of enactment starting from old to recent one

- A. Basel Convention
- B. Montreal Protocol
- C. Copenhagen Summit
- D. Kyoto Protocol
- E. Tbilisi Conference

Choose the correct answer from the options given below:

- 1. A, B, C, D, E
- 2. E, B, A, D, C
- 3. E, D, C, B, A
- 4. D, A, B, E, C

Options :

- 9380663685. 1
- 9380663686. 2
- 9380663687. 3
- 9380663688. 4

Question Number : 122 Question Id : 938066948 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Correct Marks : 2 Wrong Marks : 0

Arrange the following in chronological order as per their year of enactment starting from old to recent one

- A. Basel Convention
- B. Montreal Protocol
- C. Copenhagen Summit
- D. Kyoto Protocol
- E. Tiblisi Conference

Choose the correct answer from the options given below:

- 1. A, B, C, D, E
- 2. E, B, A, D, C
- 3. E, D, C, B, A
- 4. D, A, B, E, C

Options :

- 9380663685. 1
- 9380663686. 2
- 9380663687. 3
- 9380663688. 4

Question Number : 123 Question Id : 938066949 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Correct Marks : 2 Wrong Marks : 0

Which of the following rules came in existence in the same calendar year in India?

- A. The Hazardous and other Waste (Management and Transboundary Movement) Rules
- B. The Batteries (Management and Handling) Rules
- C. The Biomedical Waste Management Rules
- D. The Solid Waste Management Rules
- E. The Public Liability Insurance Rules

Choose the correct answer from the options given below:

- 1. A, B and C Only
- 2. B, C and D Only
- 3. A, C and D Only
- 4. C, D and E Only

Options :

- 9380663689. 1
- 9380663690. 2
- 9380663691. 3
- 9380663692. 4

Question Number : 123 Question Id : 938066949 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Correct Marks : 2 Wrong Marks : 0

Which of the following rules came in existence in the same calendar year in India?

- A. The Hazardous and other Waste (Management and Transboundary Movement) Rules
- B. The Batteries (Management and Handling) Rules
- C. The Biomedical Waste Management Rules
- D. The Solid Waste Management Rules
- E. The Public Liability Insurance Rules

Choose the correct answer from the options given below:

- 1. A, B and C Only
- 2. B, C and D Only
- 3. A, C and D Only
- 4. C, D and E Only

Options :

9380663689. 1
9380663690. 2
9380663691. 3
9380663692. 4

Question Number : 124 Question Id : 938066950 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Correct Marks : 2 Wrong Marks : 0

Which of the following are components of Monitoring and Feedback in ecological impact analysis process?

- A. To determine the significance and importance of prediction
- B. To identify and predict impacts on ecosystem component
- C. To provide opportunities for corrective action in light of unforeseen outcomes
- D. To reduce significant adverse effects
- E. To strengthen the knowledge base

Choose the correct answer from the options given below:

- 1. A, B and C Only
- 2. B and D Only
- 3. C and E Only
- 4. C, D and E Only

Options :

9380663693. 1
9380663694. 2
9380663695. 3
9380663696. 4

Question Number : 124 Question Id : 938066950 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No
Correct Marks : 2 Wrong Marks : 0

Which of the following are components of Monitoring and Feedback in ecological impact analysis process?

- A. To determine the significance and importance of prediction
- B. To identify and predict impacts on ecosystem component
- C. To provide opportunities for corrective action in light of unforeseen outcomes
- D. To reduce significant adverse effects
- E. To strengthen the knowledge base

Choose the correct answer from the options given below:

- 1. A, B and C Only
- 2. B and D Only
- 3. C and E Only
- 4. C, D and E Only

Options :

- 9380663693. 1
- 9380663694. 2
- 9380663695. 3
- 9380663696. 4

Question Number : 125 Question Id : 938066951 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Correct Marks : 2 Wrong Marks : 0

Match the **LIST-I** with **LIST-II**

LIST-I Article		LIST-II Description	
A.	51 A (g)	I.	Protection of monuments and places and objects of national importance
B.	4	II.	To protect and improve the national environment including forest, lakes, rivers and wildlife, and to have compassion for living creatures
C.	48	III.	Protection and improvement of environment and safeguarding of forest and wildlife
D.	48A	IV.	Organization of agriculture and animal husbandry

Choose the *correct* answer from the options given below:

1. A-II, B-IV, C-I, D-III
2. A-III, B-I, C-IV, D-II
3. A-II, B-I, C-IV, D-III
4. A-I, B-IV, C-III, D-II

Options :

- 9380663697. 1
- 9380663698. 2
- 9380663699. 3
- 9380663700. 4

Question Number : 125 Question Id : 938066951 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Correct Marks : 2 Wrong Marks : 0

Match the **LIST-I** with **LIST-II**

LIST-I Article		LIST-II Description	
A.	51 A (g)	I.	Protection of monuments and places and objects of national importance
B.	4	II.	To protect and improve the national environment including forest, lakes, rivers and wildlife, and to have compassion for living creatures
C.	48	III.	Protection and improvement of environment and safeguarding of forest and wildlife
D.	48A	IV.	Organization of agriculture and animal husbandry

Choose the *correct* answer from the options given below:

1. A-II, B-IV, C-I, D-III
2. A-III, B-I, C-IV, D-II
3. A-II, B-I, C-IV, D-III
4. A-I, B-IV, C-III, D-II

Options :

- 9380663697. 1
- 9380663698. 2
- 9380663699. 3
- 9380663700. 4

Question Number : 126 Question Id : 938066952 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No
Correct Marks : 2 Wrong Marks : 0

Consider the following are statements regarding visualization methods for describing data.

- A. we can calculate value of 55th percentile from Box-plots.
- B. Chernoff plot is a Hierarchical chart.
- C. In Pie-chart, area of circle is non-proportional to frequency of a particular categorical response.
- D. Ishikawa diagrams are used for visualizing the cause and effect relationship.
- E. Histogram is used for categorical data.

Choose the correct answer from the options given below:

- 1. A, B and C Only
- 2. B, D and E Only
- 3. C and E Only
- 4. B and D Only

Options :

- 9380663701. 1
- 9380663702. 2
- 9380663703. 3
- 9380663704. 4

Question Number : 126 Question Id : 938066952 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No
Correct Marks : 2 Wrong Marks : 0

Consider the following are statements regarding visualization methods for describing data.

- A. we can calculate value of 55th percentile from Box-plots.
- B. Chernoff plot is a Hierarchical chart.
- C. In Pie-chart, area of circle is non-proportional to frequency of a particular categorical response.
- D. Ishikawa diagrams are used for visualizing the cause and effect relationship.
- E. Histogram is used for categorical data.

Choose the correct answer from the options given below:

- 1. A, B and C Only
- 2. B, D and E Only
- 3. C and E Only
- 4. B and D Only

Options :

- 9380663701. 1
- 9380663702. 2
- 9380663703. 3
- 9380663704. 4

Question Number : 127 Question Id : 938066953 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No
Correct Marks : 2 Wrong Marks : 0

Which of the following statements regarding statistical tool to assess various aspects of a relationship is /are true?

- A. For assessing agreement between two quantitative variables, Cohen's Kappa is used.
- B. The residuals in a linear relationship should follow normal distribution.
- C. For assessing strength of relationship between exposure and outcome (yes Vs no), relative risk is used.
- D. When dependent variable is quantitative and one independent variable is non-linear, we do Curvi linear regression.
- E. There are three parameters for expressing linear relationship between one dependent and one independent variable (both quantitative).

Choose the most appropriate answer from the options given below:

- 1. A Only
- 2. B and C Only
- 3. C and E Only
- 4. B and D Only

Options :

- 9380663705. 1
- 9380663706. 2
- 9380663707. 3
- 9380663708. 4

Question Number : 127 Question Id : 938066953 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No
Correct Marks : 2 Wrong Marks : 0

Which of the following statements regarding statistical tool to assess various aspects of a relationship is /are true?

- A. For assessing agreement between two quantitative variables, Cohen's Kappa is used.
- B. The residuals in a linear relationship should follow normal distribution.
- C. For assessing strength of relationship between exposure and outcome (yes Vs no), relative risk is used.
- D. When dependent variable is quantitative and one independent variable is non-linear, we do Curvi linear regression.
- E. There are three parameters for expressing linear relationship between one dependent and one independent variable (both quantitative).

Choose the most appropriate answer from the options given below:

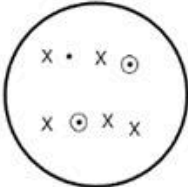
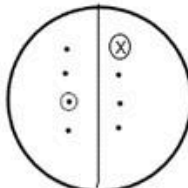
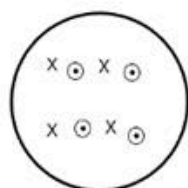
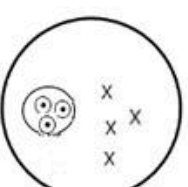
- 1. A Only
- 2. B and C Only
- 3. C and E Only
- 4. B and D Only

Options :

- 9380663705. 1
- 9380663706. 2
- 9380663707. 3
- 9380663708. 4

Question Number : 128 Question Id : 938066954 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Correct Marks : 2 Wrong Marks : 0

Match the **LIST-I** with **LIST-II**

LIST-I Sampling frame (Circles denotes unit selected)		LIST-II Sampling Procedure	
A.		I.	Systematic Sampling
B.		II.	Cluster Sampling
C.		III.	Simple Random Sampling
D.		IV.	Stratified Random Sampling

Choose the *correct* answer from the options given below:

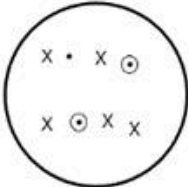
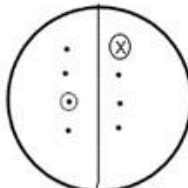
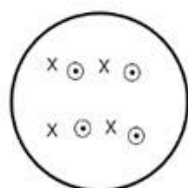
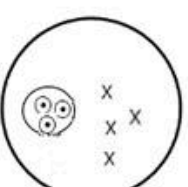
1. A-II, B-I, C-III, D-IV
2. A-III, B-IV, C-I, D-II
3. A-I, B-III, C-IV, D-II
4. A-III, B-I, C-II, D-IV

Options :

- 9380663709. 1
- 9380663710. 2
- 9380663711. 3
- 9380663712. 4

Question Number : 128 Question Id : 938066954 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Correct Marks : 2 Wrong Marks : 0

Match the **LIST-I** with **LIST-II**

LIST-I Sampling frame (Circles denotes unit selected)		LIST-II Sampling Procedure	
A.		I.	Systematic Sampling
B.		II.	Cluster Sampling
C.		III.	Simple Random Sampling
D.		IV.	Stratified Random Sampling

Choose the *correct* answer from the options given below:

1. A-II, B-I, C-III, D-IV
2. A-III, B-IV, C-I, D-II
3. A-I, B-III, C-IV, D-II
4. A-III, B-I, C-II, D-IV

Options :

- 9380663709. 1
- 9380663710. 2
- 9380663711. 3
- 9380663712. 4

Question Number : 129 Question Id : 938066955 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Correct Marks : 2 Wrong Marks : 0

Match the **LIST-I** with **LIST-II**

LIST-I Ways of expressing probabilities		LIST-II Situations expressing probabilities	
A.	Decimal Notations	I.	Random variables
B.	Scientific Notations	II.	Conversions
C.	Percentage	III.	Computations
D.	Pictorial Form	IV.	For low probabilities

Choose the *correct* answer from the options given below:

1. A-I, B-II, C-IV, D-III
2. A-III, B-IV, C-II, D-I
3. A-IV, B-III, C-I, D-II
4. A-III, B-II, C-IV, D-I

Options :

- 9380663713. 1
- 9380663714. 2
- 9380663715. 3
- 9380663716. 4

Question Number : 129 Question Id : 938066955 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Correct Marks : 2 Wrong Marks : 0

Match the **LIST-I** with **LIST-II**

LIST-I Ways of expressing probabilities		LIST-II Situations expressing probabilities	
A.	Decimal Notations	I.	Random variables
B.	Scientific Notations	II.	Conversions
C.	Percentage	III.	Computations
D.	Pictorial Form	IV.	For low probabilities

Choose the *correct* answer from the options given below:

1. A-I, B-II, C-IV, D-III
2. A-III, B-IV, C-II, D-I
3. A-IV, B-III, C-I, D-II
4. A-III, B-II, C-IV, D-I

Options :

- 9380663713. 1
- 9380663714. 2
- 9380663715. 3
- 9380663716. 4

Question Number : 130 Question Id : 938066956 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Correct Marks : 2 Wrong Marks : 0

Arrange the following statements regarding calculations of Chi-square test statistic for assessing association between two categorical variables in the correct sequence.

- A. Calculate value of χ^2 statistic.
- B. Calculate expected cell frequencies.
- C. Assess degree of freedom.
- D. Tabulate data in contingency table.
- E. Compare calculated value with critical value and take decision.

Choose the correct answer from the options given below:

- 1. A, B, E, C, D
- 2. C, B, A, E, D
- 3. D, A, B, E, C
- 4. D, B, A, C, E

Options :

- 9380663717. 1
- 9380663718. 2
- 9380663719. 3
- 9380663720. 4

Question Number : 130 Question Id : 938066956 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Correct Marks : 2 Wrong Marks : 0

Arrange the following statements regarding calculations of Chi-square test statistic for assessing association between two categorical variables in the correct sequence.

- A. Calculate value of χ^2 statistic.
- B. Calculate expected cell frequencies.
- C. Assess degree of freedom.
- D. Tabulate data in contingency table.
- E. Compare calculated value with critical value and take decision.

Choose the correct answer from the options given below:

- 1. A, B, E, C, D
- 2. C, B, A, E, D
- 3. D, A, B, E, C
- 4. D, B, A, C, E

Options :

- 9380663717. 1
- 9380663718. 2
- 9380663719. 3
- 9380663720. 4

Question Number : 131 Question Id : 938066957 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Correct Marks : 2 Wrong Marks : 0

How many methodologies under 'offset mechanism' of the Carbon Credit Trading Scheme (CCTS, 2023), allowing non-obligated entities to participate in voluntary climate mitigation projects, are proposed by the Government of India?

1. 5
2. 6
3. 8
4. 12

Options :

9380663721. 1
9380663722. 2
9380663723. 3
9380663724. 4

Question Number : 131 Question Id : 938066957 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Correct Marks : 2 Wrong Marks : 0

How many methodologies under 'offset mechanism' of the Carbon Credit Trading Scheme (CCTS, 2023), allowing non-obligated entities to participate in voluntary climate mitigation projects, are proposed by the Government of India?

1. 5
2. 6
3. 8
4. 12

Options :

9380663721. 1
9380663722. 2
9380663723. 3
9380663724. 4

Question Number : 132 Question Id : 938066958 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Correct Marks : 2 Wrong Marks : 0

In a fertile pond (water body), the region where the light intensity is usually too low for photosynthesis and only community respiration occurs. The area where respiration (R) is greater than primary production (P), i.e. $P/R < 1$, is called as _____.

1. limnetic zone
2. profundal zone
3. pelagic zone
4. littoral zone

Options :

9380663725. 1
9380663726. 2
9380663727. 3
9380663728. 4

Question Number : 132 Question Id : 938066958 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Correct Marks : 2 Wrong Marks : 0

In a fertile pond (water body), the region where the light intensity is usually too low for photosynthesis and only community respiration occurs. The area where respiration (R) is greater than primary production (P), i.e. $P/R < 1$, is called as _____.

1. limnetic zone
2. profundal zone
3. pelagic zone
4. littoral zone

Options :

9380663725. 1
9380663726. 2
9380663727. 3
9380663728. 4

Question Number : 133 Question Id : 938066959 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Correct Marks : 2 Wrong Marks : 0

National Mission for a Green India (GIM) is one of the eight missions under National Action Plan on Climate Change. Which of the following is NOT listed as an aim of Green India Mission for forest cover and response to climate change?

1. Conservation
2. Enhancement
3. Protection
4. Restoration

Options :

9380663729. 1
9380663730. 2
9380663731. 3
9380663732. 4

Question Number : 133 Question Id : 938066959 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Correct Marks : 2 Wrong Marks : 0

National Mission for a Green India (GIM) is one of the eight missions under National Action Plan on Climate Change. Which of the following is NOT listed as an aim of Green India Mission for forest cover and response to climate change?

1. Conservation
2. Enhancement
3. Protection
4. Restoration

Options :

9380663729. 1
9380663730. 2
9380663731. 3
9380663732. 4

Question Number : 134 Question Id : 938066960 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Correct Marks : 2 Wrong Marks : 0

Which of the following was NOT a cause of dispersed radioactivity during nuclear power plant accident in Chernobyl, Ukraine in the year 1985?

1. ^{131}Xe and ^{85}K
2. ^{131}I
3. ^{239}Pu
4. ^{134}Cs and ^{137}Cs

Options :

9380663733. 1
9380663734. 2
9380663735. 3
9380663736. 4

Question Number : 134 Question Id : 938066960 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Correct Marks : 2 Wrong Marks : 0

Which of the following was NOT a cause of dispersed radioactivity during nuclear power plant accident in Chernobyl, Ukraine in the year 1985?

1. ^{131}Xe and ^{85}K
2. ^{131}I
3. ^{239}Pu
4. ^{134}Cs and ^{137}Cs

Options :

9380663733. 1
9380663734. 2
9380663735. 3
9380663736. 4

Question Number : 135 Question Id : 938066961 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No
Correct Marks : 2 Wrong Marks : 0

Which of the following key term is NOT included in the definition of Disaster in the Disaster Management Act of 2005?

1. Calamity
2. Catastrophe
3. Mishap
4. Risk

Options :

9380663737. 1
9380663738. 2
9380663739. 3
9380663740. 4

Question Number : 135 Question Id : 938066961 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No
Correct Marks : 2 Wrong Marks : 0

Which of the following key term is NOT included in the definition of Disaster in the Disaster Management Act of 2005?

1. Calamity
2. Catastrophe
3. Mishap
4. Risk

Options :

9380663737. 1
9380663738. 2
9380663739. 3
9380663740. 4

Question Number : 136 Question Id : 938066962 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Correct Marks : 2 Wrong Marks : 0

Arrange the following states of India in the order of their ranking (top to bottom) in Swachh Survekshan 2023.

- A. Chattisgarh
- B. Madhya Pradesh
- C. Maharastra
- D. Odisha
- E. Telangana

Choose the correct answer from the options given below:

- 1. C, E, B, A, D
- 2. B, C, D, A, E
- 3. C, B, A, D, E
- 4. D, B, E, A, C

Options :

- 9380663741. 1
- 9380663742. 2
- 9380663743. 3
- 9380663744. 4

Question Number : 136 Question Id : 938066962 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Correct Marks : 2 Wrong Marks : 0

Arrange the following states of India in the order of their ranking (top to bottom) in Swachh Survekshan 2023.

- A. Chattisgarh
- B. Madhya Pradesh
- C. Maharastra
- D. Odisha
- E. Telangana

Choose the correct answer from the options given below:

- 1. C, E, B, A, D
- 2. B, C, D, A, E
- 3. C, B, A, D, E
- 4. D, B, E, A, C

Options :

- 9380663741. 1
- 9380663742. 2
- 9380663743. 3
- 9380663744. 4

Question Number : 137 Question Id : 938066963 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Correct Marks : 2 Wrong Marks : 0

All the Sustainable Development Goals (SDGs), other than Partnership (Goal 17) represent Ecological, Social and Economic aspects. What are their respective numbers (out of 16)?

1. Ecological: Social : Economic = 4 : 6 : 6
2. Ecological: Social : Economic = 5 : 6 : 5
3. Ecological: Social : Economic = 4 : 8 : 4
4. Ecological: Social : Economic = 5 : 5 : 6

Options :

- 9380663745. 1
- 9380663746. 2
- 9380663747. 3
- 9380663748. 4

Question Number : 137 Question Id : 938066963 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Correct Marks : 2 Wrong Marks : 0

All the Sustainable Development Goals (SDGs), other than Partnership (Goal 17) represent Ecological, Social and Economic aspects. What are their respective numbers (out of 16)?

1. Ecological: Social : Economic = 4 : 6 : 6
2. Ecological: Social : Economic = 5 : 6 : 5
3. Ecological: Social : Economic = 4 : 8 : 4
4. Ecological: Social : Economic = 5 : 5 : 6

Options :

- 9380663745. 1
- 9380663746. 2
- 9380663747. 3
- 9380663748. 4

Question Number : 138 Question Id : 938066964 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Correct Marks : 2 Wrong Marks : 0

Which of the following are likely consequences of global climate change?

- A. It will increase acidity of oceans.
- B. Labile pool of C in soils will mobilise much faster.
- C. It may accelerate soil salinization.
- D. It exacerbated the incidence of coral bleaching.
- E. Argonite will be more likely to dissolve into seawater.

Choose the correct answer from the options given below:

- 1. A, D and E Only
- 2. A, B and D Only
- 3. A, B, C and D Only
- 4. A, B, C, D and E

Options :

9380663749. 1
9380663750. 2
9380663751. 3
9380663752. 4

Question Number : 138 Question Id : 938066964 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Correct Marks : 2 Wrong Marks : 0

Which of the following are likely consequences of global climate change?

- A. It will increase acidity of oceans.
- B. Labile pool of C in soils will mobilise much faster.
- C. It may accelerate soil salinization.
- D. It exacerbated the incidence of coral bleaching.
- E. Argonite will be more likely to dissolve into seawater.

Choose the correct answer from the options given below:

- 1. A, D and E Only
- 2. A, B and D Only
- 3. A, B, C and D Only
- 4. A, B, C, D and E

Options :

9380663749. 1
9380663750. 2
9380663751. 3
9380663752. 4

Question Number : 139 Question Id : 938066965 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Correct Marks : 2 Wrong Marks : 0

Match the **LIST-I** with **LIST-II**

LIST-I National Park		LIST-II River	
A.	Dudhawa	I.	Jhelum
B.	Kalesar	II.	Sharda
C.	Kazinag	III.	Teesta
D.	Khangchendzonga	IV.	Yamuna

Choose the *correct* answer from the options given below:

1. A-II, B-IV, C-III, D-I
2. A-II, B-IV, C-I, D-III
3. A-IV, B-II, C-III, D-I
4. A-IV, B-II, C-I, D-III

Options :

9380663753. 1
9380663754. 2
9380663755. 3
9380663756. 4

Question Number : 139 Question Id : 938066965 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Correct Marks : 2 Wrong Marks : 0

Match the **LIST-I** with **LIST-II**

LIST-I National Park		LIST-II River	
A.	Dudhawa	I.	Jhelum
B.	Kalesar	II.	Sharda
C.	Kazinag	III.	Teesta
D.	Khangchendzonga	IV.	Yamuna

Choose the *correct* answer from the options given below:

1. A-II, B-IV, C-III, D-I
2. A-II, B-IV, C-I, D-III
3. A-IV, B-II, C-III, D-I
4. A-IV, B-II, C-I, D-III

Options :

9380663753. 1
9380663754. 2
9380663755. 3
9380663756. 4

Question Number : 140 Question Id : 938066966 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Correct Marks : 2 Wrong Marks : 0

Arrange the following stages of coal development from lower to higher grade.

- A. Dehydration
- B. Peatification
- C. Bituminization
- D. Debituminization
- E. Graphitization

Choose the correct answer from the options given below:

- 1. A, B, C, D, E
- 2. B, A, C, D, E
- 3. A, B, D, C, E
- 4. B, A, D, C, E

Options :

- 9380663757. 1
- 9380663758. 2
- 9380663759. 3
- 9380663760. 4

Question Number : 140 Question Id : 938066966 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Correct Marks : 2 Wrong Marks : 0

Arrange the following stages of coal development from lower to higher grade.

- A. Dehydration
- B. Peatification
- C. Bituminization
- D. Debituminization
- E. Graphitization

Choose the correct answer from the options given below:

- 1. A, B, C, D, E
- 2. B, A, C, D, E
- 3. A, B, D, C, E
- 4. B, A, D, C, E

Options :

- 9380663757. 1
- 9380663758. 2
- 9380663759. 3
- 9380663760. 4

Sub-Section Number :

2

Sub-Section Id :

93806641

Question Shuffling Allowed :

No

Question Id : 938066967 Question Type : COMPREHENSION Sub Question Shuffling Allowed : Yes Group
Comprehension Questions : No Question Pattern Type : NonMatrix
Question Numbers : (141 to 145)

Read the following passage and answer the question:

Hydrothermal fluids at spreading centers of Mid Oceanic Ridges originate due to circulation of sea water through hot volcanic rocks. Heated rocks and deeper magmas pull in the cold seawater, heat it and then pull out the hydrothermal fluid- the hot water. The hydrothermal water laden with metals and many other elements returns back into the overlying oceans. Circulating sea water through porous volcanic rocks not only cools the lithosphere but also contribute to the sea water chemistry, and formation of important mineral deposits of Co, Ni, Lanthanides and PGEs. Continental weathering also contributes to the seawater composition. The hydrothermal energy and nutrients support complex ecosystems at Mid Oceanic Ridges. Microorganisms in the ecosystem also play important role in the precipitation of minerals. In the year 2024, India having with two ocean probes, applied to International Sea Bed Authority under the UN Convention on the Law of the Sea (UNCLOS) to explore deep sea around Carlsberg Ridge in the north western limb of the Indian Ocean Ridge system, and Afanasy Nikitin Seamount in the Central Indian basin. These missions can yield minerals and metals, associated with crusts and nodules, important in clean energy transition and other strategic importance.

Read the above passage and answer the following questions:

Sub questions

Question Number : 141 Question Id : 938066968 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No
Correct Marks : 2 Wrong Marks : 0

Which of the following represents steepest geothermal gradient?

1. Continent-continent Collision mountains
2. Subduction zone
3. Mid Oceanic Ridges
4. Old and thick lithosphere

Options :

9380663761. 1
9380663762. 2
9380663763. 3
9380663764. 4

Question Number : 142 Question Id : 938066969 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No
Correct Marks : 2 Wrong Marks : 0

Carlsberg Ridge represents boundary between_____.

1. Indian and Arabic plates
2. Indian and Eurasian Plates
3. Indian and Somalian Plates
4. Indian and Australian Plates

Options :

9380663765. 1
9380663766. 2
9380663767. 3
9380663768. 4

Question Number : 143 Question Id : 938066970 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Correct Marks : 2 Wrong Marks : 0

Formation of polymetallic nodules on the surface of ocean indicates_____.

1. anoxic environment
2. oxic environment
3. very low pH conditions
4. high salinity conditions

Options :

9380663769. 1
9380663770. 2
9380663771. 3
9380663772. 4

Question Number : 144 Question Id : 938066971 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Correct Marks : 2 Wrong Marks : 0

Which of the following is mainly contributed to the sea water composition by volcanic activities?

1. Na^+
2. HCO_3^-
3. Cl^-
4. K^+

Options :

9380663773. 1
9380663774. 2
9380663775. 3
9380663776. 4

Question Number : 145 Question Id : 938066972 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Correct Marks : 2 Wrong Marks : 0

Cobalt, Nickel and lanthanides belong to_____.

1. Rare earth elements
2. Critical metals
3. Hydrothermal elements
4. Chalcophile elements

Options :

9380663777. 1
9380663778. 2
9380663779. 3
9380663780. 4

Question Id : 938066967 Question Type : COMPREHENSION Sub Question Shuffling Allowed : Yes Group
Comprehension Questions : No Question Pattern Type : NonMatrix
Question Numbers : (141 to 145)

Read the following passage and answer the question:

Hydrothermal fluids at spreading centers of Mid Oceanic Ridges originate due to circulation of sea water through hot volcanic rocks. Heated rocks and deeper magmas pull in the cold seawater, heat it and then pull out the hydrothermal fluid- the hot water. The hydrothermal water laden with metals and many other elements returns back into the overlying oceans. Circulating sea water through porous volcanic rocks not only cools the lithosphere but also contribute to the sea water chemistry, and formation of important mineral deposits of Co, Ni, Lanthanides and PGEs. Continental weathering also contributes to the seawater composition. The hydrothermal energy and nutrients support complex ecosystems at Mid Oceanic Ridges. Microorganisms in the ecosystem also play important role in the precipitation of minerals. In the year 2024, India having with two ocean probes, applied to International Sea Bed Authority under the UN Convention on the Law of the Sea (UNCLOS) to explore deep sea around Carlsberg Ridge in the north western limb of the Indian Ocean Ridge system, and Afanasy Nikitin Seamount in the Central Indian basin. These missions can yield minerals and metals, associated with crusts and nodules, important in clean energy transition and other strategic importance.

Read the above passage and answer the following questions:

Sub questions

Question Number : 141 Question Id : 938066968 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No
Correct Marks : 2 Wrong Marks : 0

Which of the following represents steepest geothermal gradient?

1. Continent-continent Collision mountains
2. Subduction zone
3. Mid Oceanic Ridges
4. Old and thick lithosphere

Options :

9380663761. 1
9380663762. 2
9380663763. 3
9380663764. 4

Question Number : 142 Question Id : 938066969 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No
Correct Marks : 2 Wrong Marks : 0

Carlsberg Ridge represents boundary between_____.

1. Indian and Arabic plates
2. Indian and Eurasian Plates
3. Indian and Somalian Plates
4. Indian and Australian Plates

Options :

9380663765. 1
9380663766. 2
9380663767. 3
9380663768. 4

Question Number : 143 Question Id : 938066970 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Correct Marks : 2 Wrong Marks : 0

Formation of polymetallic nodules on the surface of ocean indicates_____.

1. anoxic environment
2. oxic environment
3. very low pH conditions
4. high salinity conditions

Options :

9380663769. 1
9380663770. 2
9380663771. 3
9380663772. 4

Question Number : 144 Question Id : 938066971 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Correct Marks : 2 Wrong Marks : 0

Which of the following is mainly contributed to the sea water composition by volcanic activities?

1. Na^+
2. HCO_3^-
3. Cl^-
4. K^+

Options :

9380663773. 1
9380663774. 2
9380663775. 3
9380663776. 4

Question Number : 145 Question Id : 938066972 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Correct Marks : 2 Wrong Marks : 0

Cobalt, Nickel and lanthanides belong to_____.

1. Rare earth elements
2. Critical metals
3. Hydrothermal elements
4. Chalcophile elements

Options :

9380663777. 1
9380663778. 2
9380663779. 3
9380663780. 4

Sub-Section Number :

3

Sub-Section Id :

93806642

Question Shuffling Allowed :

No

Question Id : 938066973 Question Type : COMPREHENSION Sub Question Shuffling Allowed : Yes Group Comprehension Questions : No Question Pattern Type : NonMatrix Question Numbers : (146 to 150)

Read the following passage and answer the question:

A group of environmental toxicologists selected an endemic area in rural setting for screening females for breast cancer, based on the previous literature documentation regarding exposure to the organochlorine compound (DDT). A total of 5000 females were screened in this activity and clinicians in the group of environmental toxicologists confirmed 250 females as positive for breast cancer. The blood samples of 150 females were also taken to quantify the value of DDT. The mean (SD) for DDT was estimated to be normally distributed as 2.5 (1.0) ng/ml. The epidemiologist in the team also collected detailed information regarding age of females (ranged: 15-49 years), family history (fh), type of dietary habits (vegetarian/ non-vegetarian), and menopause status (yes/ no).

Read the above passage and answer the following questions:

Sub questions

Question Number : 146 Question Id : 938066974 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Correct Marks : 2 Wrong Marks : 0

What is the estimated prevalence for breast cancer in the community?

1. 2%
2. 3%
3. 4%
4. 5%

Options :

9380663781. 1
9380663782. 2
9380663783. 3
9380663784. 4

Question Number : 147 Question Id : 938066975 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Correct Marks : 2 Wrong Marks : 0

Approximately for how many females, the value of DDT will be within limits of 2.5 to 3.5 ng/ml?

1. 50
2. 51
3. 52
4. 53

Options :

9380663785. 1
9380663786. 2
9380663787. 3
9380663788. 4

Question Number : 148 Question Id : 938066976 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Correct Marks : 2 Wrong Marks : 0

Which test of significance should be performed to test the association between status of dietary habits and DDT levels among 150 females whose blood sample were taken?

1. Mann-Whitney U test
2. One sample t test
3. Two independent sample t test
4. One way ANOVA

Options :

9380663789. 1
9380663790. 2
9380663791. 3
9380663792. 4

Question Number : 149 Question Id : 938066977 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Correct Marks : 2 Wrong Marks : 0

The epidemiologist wish to develop an epidemiological model for development of breast cancer (n=150) based upon information on age, family history, and dietary habits of the subjects. Which one of the following epidemiological models will be the best choice?

1. Binary Logistic Model
2. Simple Linear Model
3. Multiple Regression Model
4. General Linear Model

Options :

9380663793. 1
9380663794. 2
9380663795. 3
9380663796. 4

Question Number : 150 Question Id : 938066978 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Correct Marks : 2 Wrong Marks : 0

In the same community (rural area) if the prevalence of breast cancer remains the same and there is almost negligible migration, what will be the expected number of breast cancer if we assume arithmetic growth model in one year duration?

1. 262.0
2. 262.2
3. 262.3
4. 262.5

Options :

9380663797. 1
9380663798. 2
9380663799. 3
9380663800. 4

Question Id : 938066973 Question Type : COMPREHENSION Sub Question Shuffling Allowed : Yes Group Comprehension Questions : No Question Pattern Type : NonMatrix
Question Numbers : (146 to 150)

Read the following passage and answer the question:

A group of environmental toxicologists selected an endemic area in rural setting for screening females for breast cancer, based on the previous literature documentation regarding exposure to the organochlorine compound (DDT). A total of 5000 females were screened in this activity and clinicians in the group of environmental toxicologists confirmed 250 females as positive for breast cancer. The blood samples of 150 females were also taken to quantify the value of DDT. The mean (SD) for DDT was estimated to be normally distributed as 2.5 (1.0) ng/ml. The epidemiologist in the team also collected detailed information regarding age of females (ranged: 15-49 years), family history (fh), type of dietary habits (vegetarian/ non-vegetarian), and menopause status (yes/ no).

Read the above passage and answer the following questions:

Sub questions

Question Number : 146 Question Id : 938066974 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No
Correct Marks : 2 Wrong Marks : 0

What is the estimated prevalence for breast cancer in the community?

1. 2%
2. 3%
3. 4%
4. 5%

Options :

9380663781. 1
9380663782. 2
9380663783. 3
9380663784. 4

Question Number : 147 Question Id : 938066975 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No
Correct Marks : 2 Wrong Marks : 0

Approximately for how many females, the value of DDT will be within limits of 2.5 to 3.5 ng/ml?

1. 50
2. 51
3. 52
4. 53

Options :

9380663785. 1
9380663786. 2
9380663787. 3
9380663788. 4

Question Number : 148 Question Id : 938066976 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No
Correct Marks : 2 Wrong Marks : 0

Which test of significance should be performed to test the association between status of dietary habits and DDT levels among 150 females whose blood sample were taken?

1. Mann-Whitney U test
2. One sample t test
3. Two independent sample t test
4. One way ANOVA

Options :

9380663789. 1
9380663790. 2
9380663791. 3
9380663792. 4

Question Number : 149 Question Id : 938066977 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No

Correct Marks : 2 Wrong Marks : 0

The epidemiologist wish to develop an epidemiological model for development of breast cancer (n=150) based upon information on age, family history, and dietary habits of the subjects. Which one of the following epidemiological models will be the best choice?

1. Binary Logistic Model
2. Simple Linear Model
3. Multiple Regression Model
4. General Linear Model

Options :

9380663793. 1
9380663794. 2
9380663795. 3
9380663796. 4

Question Number : 150 Question Id : 938066978 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No

Correct Marks : 2 Wrong Marks : 0

In the same community (rural area) if the prevalence of breast cancer remains the same and there is almost negligible migration, what will be the expected number of breast cancer if we assume arithmetic growth model in one year duration?

1. 262.0
2. 262.2
3. 262.3
4. 262.5

Options :

9380663797. 1
9380663798. 2
9380663799. 3
9380663800. 4