

National Testing Agency

Question Paper Name :	Civil Structural Transport Engg Eng 30th June 2023 Shift 3
Subject Name :	Civil Structural Transport Engg Eng
Creation Date :	2023-06-30 23:01:25
Duration :	120
Total Marks :	400
Display Marks:	Yes

Civil Structural Transport Engg

Group Number :	1
Group Id :	686340404
Group Maximum Duration :	0
Group Minimum Duration :	120
Show Attended Group? :	No
Edit Attended Group? :	No
Break time :	0
Group Marks :	400
Is this Group for Examiner? :	No
Examiner permission :	Cant View
Show Progress Bar? :	No

Part A

Section Id :	686340803
Section Number :	1
Section type :	Online
Mandatory or Optional :	Mandatory
Number of Questions :	21
Number of Questions to be attempted :	21
Section Marks :	100
Enable Mark as Answered Mark for Review and Clear Response :	Yes
Maximum Instruction Time :	0
Sub-Section Number :	1
Sub-Section Id :	6863401343
Question Shuffling Allowed :	No
Is Section Default? :	null

Question Id : 68634040817 Question Type : COMPREHENSION Sub Question Shuffling Allowed : Yes Group Comprehension Questions : No Question Pattern Type : NonMatrix Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Question Numbers : (1 to 5)

Question Label : Comprehension

Before the 1920s, film used to be silent with just the action on the scene along with subtitles. Come the decade of 1920 and the advent of new technology, the filmmakers had the possibility to synchronise a soundtrack with the action on the screen. This included dialogues, musical score and special effects. After this development, the movies were called talkies since the audience was able to hear the actors talk with each other. There was no stopping from then on and the next significant development was the introduction of colour. However, colour movies were somewhat slow to catch on, especially when compared to the addition of sound to the movie. Another reason for this slow acceptance of colour was the considerable developing and processing cost it entailed. With passing of time, and improving technology, the colour processing became as affordable as black-and-white films. More and more movies were filmed in colour to a point when the film makers did away with black-and-white films.

Sub questions

Question Number : 1 Question Id : 68634040818 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1

Movies that had no sound were called _____ movies

1. dumb
2. mute
3. muffled
4. silent

Options :

686340161201. 1
686340161202. 2
686340161203. 3
686340161204. 4

Question Number : 2 Question Id : 68634040819 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1

The acceptance of colour movies was a little slow compared to the _____

1. simileys
2. selfies
3. besties
4. talkies

Options :

686340161205. 1
686340161206. 2
686340161207. 3
686340161208. 4

Question Number : 3 Question Id : 68634040820 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0
Correct Marks : 4 Wrong Marks : 1

Colour movies were little slow on the uptake owing to their high _____ and _____ costs.

1. processing/ developing
2. reviewing/developing
3. filming / processing
4. filming/developing

Options :

686340161209. 1
686340161210. 2
686340161211. 3
686340161212. 4

Question Number : 4 Question Id : 68634040821 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0
Correct Marks : 4 Wrong Marks : 1

The _____ of the soundtrack to the action in the film revolutionized the process of film making.

1. stitching
2. synchronization
3. adhering
4. business

Options :

686340161213. 1
686340161214. 2
686340161215. 3
686340161216. 4

Question Number : 5 Question Id : 68634040822 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0
Correct Marks : 4 Wrong Marks : 1

What is the main idea of the passage?

1. Film making is an easy job.
2. Advancement in technology has had a tremendous impact on film making
3. Silent movies and talkies were destined to become obsolete
4. Colour movies with a soundtrack are better than black-and-white movies with a soundtrack.

Options :

686340161217. 1
686340161218. 2
686340161219. 3
686340161220. 4

Question Id : 68634040817 Question Type : COMPREHENSION Sub Question Shuffling Allowed : Yes Group Comprehension Questions : No Question Pattern Type : NonMatrix Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Question Numbers : (1 to 5)

Question Label : Comprehension

Before the 1920s, film used to be silent with just the action on the scene along with subtitles. Come the decade of 1920 and the advent of new technology, the filmmakers had the possibility to synchronise a soundtrack with the action on the screen. This included dialogues, musical score and special effects. After this development, the movies were called talkies since the audience was able to hear the actors talk with each other. There was no stopping from then on and the next significant development was the introduction of colour. However, colour movies were somewhat slow to catch on, especially when compared to the addition of sound to the movie. Another reason for this slow acceptance of colour was the considerable developing and processing cost it entailed. With passing of time, and improving technology, the colour processing became as affordable as black-and-white films. More and more movies were filmed in colour to a point when the film makers did away with black-and-white films.

Sub questions

Question Number : 1 Question Id : 68634040818 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

Movies that had no sound were called _____ movies

1. dumb
2. mute
3. muffled
4. silent

Options :

686340161201. 1
686340161202. 2
686340161203. 3
686340161204. 4

Question Number : 2 Question Id : 68634040819 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

The acceptance of colour movies was a little slow compared to the _____

1. simileys
2. selfies
3. besties
4. talkies

Options :

686340161205. 1
686340161206. 2
686340161207. 3
686340161208. 4

Question Number : 3 Question Id : 68634040820 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

Colour movies were little slow on the uptake owing to their high _____ and _____ costs.

1. processing/ developing
2. reviewing/developing
3. filming / processing
4. filming/developing

Options :

686340161209. 1
686340161210. 2
686340161211. 3
686340161212. 4

Question Number : 4 Question Id : 68634040821 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

The _____ of the soundtrack to the action in the film revolutionized the process of film making.

1. stitching
2. synchronization
3. adhering
4. business

Options :

686340161213. 1
686340161214. 2
686340161215. 3

Question Number : 5 Question Id : 68634040822 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1

What is the main idea of the passage?

1. Film making is an easy job.
2. Advancement in technology has had a tremendous impact on film making
3. Silent movies and talkies were destined to become obsolete
4. Colour movies with a soundtrack are better than black-and-white movies with a soundtrack.

Options :

686340161217. 1
686340161218. 2
686340161219. 3
686340161220. 4

Sub-Section Number :

2

Sub-Section Id :

6863401344

Question Shuffling Allowed :

Yes

Is Section Default? :

null

Question Number : 6 Question Id : 68634040823 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1

Choose the correct sequence of the four phrases given below to make a meaningful sentence.

- A. the tangled oak treetops that you can barely see the sky
- B. moss and lichen drip so thickly from
- C. in the southwest of England
- D. in Wistman's Wood in Dartmoor National Park

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

Options :

686340161221. 1
686340161222. 2
686340161223. 3
686340161224. 4

Question Number : 6 Question Id : 68634040823 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1

Choose the correct sequence of the four phrases given below to make a meaningful sentence.

- A. the tangled oak treetops that you can barely see the sky
- B. moss and lichen drip so thickly from
- C. in the southwest of England
- D. in Wistman's Wood in Dartmoor National Park

1. A, B, C, D

2. D, C, B, A

3. B, D, A, C

4. C, A, D, B

Options :

686340161221. 1

686340161222. 2

686340161223. 3

686340161224. 4

Question Number : 7 Question Id : 68634040824 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1

Which of the following is a one-word substitute for "the art of beautiful handwriting"?

- 1. Epigraphy
- 2. Calligraphy
- 3. Cartography
- 4. Topography

Options :

686340161225. 1

686340161226. 2

686340161227. 3

686340161228. 4

Question Number : 7 Question Id : 68634040824 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1

Which of the following is a one-word substitute for "the art of beautiful handwriting"?

1. Epigraphy
2. Calligraphy
3. Cartography
4. Topography

Options :

686340161225. 1
686340161226. 2
686340161227. 3
686340161228. 4

Question Number : 8 Question Id : 68634040825 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1

Which of the following can be taken to be synonym for 'obstreperous'?

1. objectionable
2. sycophantic
3. disruptive
4. obsequious

Options :

686340161229. 1
686340161230. 2
686340161231. 3
686340161232. 4

Question Number : 8 Question Id : 68634040825 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1

Which of the following can be taken to be synonym for 'obstreperous'?

1. objectionable
2. sycophantic
3. disruptive
4. obsequious

Options :

686340161229. 1
686340161230. 2

686340161231. 3

686340161232. 4

Question Number : 9 Question Id : 68634040826 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1

Choose the correct pair of prepositions to fill in the blanks of the following sentence:

She walked _____ her friend _____ the rally to support the workers.

1. beside, during
2. besides, beside
3. during, beside
4. with, on

Options :

686340161233. 1

686340161234. 2

686340161235. 3

686340161236. 4

Question Number : 9 Question Id : 68634040826 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1

Choose the correct pair of prepositions to fill in the blanks of the following sentence:

She walked _____ her friend _____ the rally to support the workers.

1. beside, during
2. besides, beside
3. during, beside
4. with, on

Options :

686340161233. 1

686340161234. 2

686340161235. 3

686340161236. 4

Question Number : 10 Question Id : 68634040827 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1

Match List I with List II

LIST I Word		LIST II Type of pronoun	
A.	what	I.	reflexive
B.	myself	II.	relative
C.	his	III.	indefinite
D.	somewhere	IV.	possessive

Choose the most appropriate answer from the options given below:

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

Options :

686340161237. 1
686340161238. 2
686340161239. 3
686340161240. 4

Question Number : 10 Question Id : 68634040827 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1

Match List I with List II

LIST I Word		LIST II Type of pronoun	
A.	what	I.	reflexive
B.	myself	II.	relative
C.	his	III.	indefinite
D.	somewhere	IV.	possessive

Choose the most appropriate answer from the options given below:

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

Options :

686340161237. 1
686340161238. 2
686340161239. 3
686340161240. 4

Question Number : 11 Question Id : 68634040828 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1

Find the average of first five multiples of 3 and first five multiples of 5.

- 1. 20
- 2. 16
- 3. 12
- 4. 22

Options :

686340161241. 1
686340161242. 2
686340161243. 3
686340161244. 4

Question Number : 11 Question Id : 68634040828 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1

Find the average of first five multiples of 3 and first five multiples of 5.

- 1. 20
- 2. 16
- 3. 12
- 4. 22

Options :

686340161241. 1
686340161242. 2
686340161243. 3
686340161244. 4

Question Number : 12 Question Id : 68634040829 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1

Simplify

$$0.9 - [2.3 - 3.2 - (7.3 - 5.4 - 3.7)]$$

1. 0.18

2. 0

3. 1.8

4. -2.6

Options :

686340161245. 1

686340161246. 2

686340161247. 3

686340161248. 4

Question Number : 12 Question Id : 68634040829 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

Simplify

$$0.9 - [2.3 - 3.2 - (7.3 - 5.4 - 3.7)]$$

1. 0.18

2. 0

3. 1.8

4. -2.6

Options :

686340161245. 1

686340161246. 2

686340161247. 3

686340161248. 4

Question Number : 13 Question Id : 68634040830 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

Perimeter of a square is same as perimeter of a rectangle. If sides of rectangle are in the ratio 17:11, then find the ratio in the areas of the square and the rectangle.

1. 17:11
2. 10:9
3. 114:113
4. 196:187

Options :

686340161249. 1
686340161250. 2
686340161251. 3
686340161252. 4

Question Number : 13 Question Id : 68634040830 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

Perimeter of a square is same as perimeter of a rectangle. If sides of rectangle are in the ratio 17:11, then find the ratio in the areas of the square and the rectangle.

1. 17:11
2. 10:9
3. 114:113
4. 196:187

Options :

686340161249. 1
686340161250. 2
686340161251. 3
686340161252. 4

Question Number : 14 Question Id : 68634040831 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

On a certain sum of money lent at 16% per annum, the difference between the compound interest for 1 year, payable half yearly and the simple interest for 1 year is ₹ 56. The sum is:

1. ₹ 5,780
2. ₹ 7,805
3. ₹ 7,850
4. ₹ 8,750

Options :

- 686340161253. 1
- 686340161254. 2
- 686340161255. 3
- 686340161256. 4

Question Number : 14 Question Id : 68634040831 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1

On a certain sum of money lent at 16% per annum, the difference between the compound interest for 1 year, payable half yearly and the simple interest for 1 year is ₹ 56. The sum is:

- 1. ₹ 5,780
- 2. ₹ 7,805
- 3. ₹ 7,850
- 4. ₹ 8,750

Options :

- 686340161253. 1
- 686340161254. 2
- 686340161255. 3
- 686340161256. 4

Question Number : 15 Question Id : 68634040832 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1

The average age of three boys is 22 years. Eight times the age of the youngest of them is 3 times the sum of the ages of the other two boys. Find the age of the eldest of them if he is 8 years older to the youngest of them.

- 1. 24 years
- 2. 25 years
- 3. 26 years
- 4. 28 years

Options :

- 686340161257. 1
- 686340161258. 2
- 686340161259. 3
- 686340161260. 4

Question Number : 15 Question Id : 68634040832 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1

The average age of three boys is 22 years. Eight times the age of the youngest of them is 3 times the sum of the ages of the other two boys. Find the age of the eldest of them if he is 8 years older to the youngest of them.

1. 24 years
2. 25 years
3. 26 years
4. 28 years

Options :

686340161257. 1
686340161258. 2
686340161259. 3
686340161260. 4

Question Number : 16 Question Id : 68634040833 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1

Given below is the statement followed by two conclusions numbered I and II.

Statement : Our securities investment carry market risk. Consult your investment advisor or agent before investing.

Conclusions I : One should not invest in securities.

II : The investment advisor calculates the market risk with certainty.

Identify which of the conclusions follows the given statement:

1. Only II follows
2. Only I follows
3. Both I and II follows
4. Either I or II follows

Options :

686340161261. 1
686340161262. 2
686340161263. 3
686340161264. 4

Question Number : 16 Question Id : 68634040833 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1

Given below is the statement followed by two conclusions numbered I and II.

Statement : Our securities investment carry market risk. Consult your investment advisor or agent before investing.

Conclusions I : One should not invest in securities.

II : The investment advisor calculates the market risk with certainty.

Identify which of the conclusions follows the given statement:

1. Only II follows
2. Only I follows
3. Both I and II follows
4. Either I or II follows

Options :

- 686340161261. 1
- 686340161262. 2
- 686340161263. 3
- 686340161264. 4

Question Number : 17 Question Id : 68634040834 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1

Find the correct water image of the given figure (X)

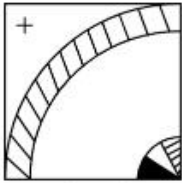
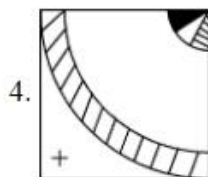
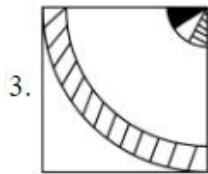
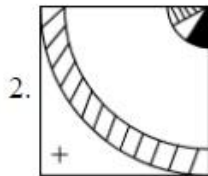
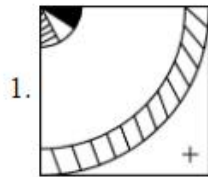


Fig (x)



Options :

686340161265. 1

686340161266. 2

686340161267. 3

686340161268. 4

Question Number : 17 Question Id : 68634040834 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1

Find the correct water image of the given figure (X)

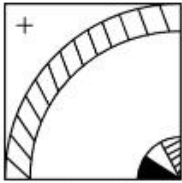
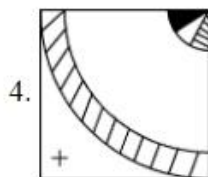
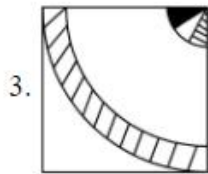
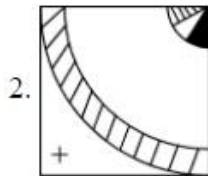
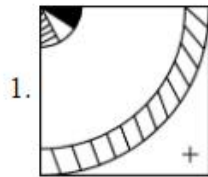


Fig (x)



Options :

686340161265. 1

686340161266. 2

686340161267. 3

686340161268. 4

Question Number : 18 Question Id : 68634040835 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

In a certain coding system, if $2 = 5$, $4 = 18$, $6 = 39$ then $10 = ?$

1. 105

2. 104

3. 89

4. 54

Options :

686340161269. 1
686340161270. 2
686340161271. 3
686340161272. 4

Question Number : 18 Question Id : 68634040835 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0
Correct Marks : 4 Wrong Marks : 1

In a certain coding system, if $2 = 5$, $4 = 18$, $6 = 39$ then $10 = ?$

1. 105
2. 104
3. 89
4. 54

Options :

686340161269. 1
686340161270. 2
686340161271. 3
686340161272. 4

Question Number : 19 Question Id : 68634040836 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0
Correct Marks : 4 Wrong Marks : 1

Find the mirror image of the given combination

"AN54WMG3"

1. 3DMW42NA
2. 3DWM45NV
3. 3GWM42NV
4. 3DWM42NV

Options :

686340161273. 1
686340161274. 2
686340161275. 3
686340161276. 4

Question Number : 19 Question Id : 68634040836 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0
Correct Marks : 4 Wrong Marks : 1

Find the mirror image of the given combination

"AN54WMG3"

1. 3DMW42NA

2. 3DWM42NV

3. 3GWM42NV

4. 3DWM42NV

Options :

686340161273. 1

686340161274. 2

686340161275. 3

686340161276. 4

Question Number : 20 Question Id : 68634040837 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

In you were born on 6th November, 1983, which was a Sunday, then on which day of the week does your birthday fall in 1984?

1. Monday

2. Wednesday

3. Tuesday

4. Friday

Options :

686340161277. 1

686340161278. 2

686340161279. 3

686340161280. 4

Question Number : 20 Question Id : 68634040837 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

In you were born on 6th November, 1983, which was a Sunday, then on which day of the week does your birthday fall in 1984?

1. Monday
2. Wednesday
3. Tuesday
4. Friday

Options :

686340161277. 1
686340161278. 2
686340161279. 3
686340161280. 4

Question Number : 21 Question Id : 68634040838 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

Satellite having the same orbital period as the period of rotation of the earth about its own axis is known as

1. Polar Satellite
2. Stationary Satellite
3. Geostationary Satellite
4. INSAT

Options :

686340161281. 1
686340161282. 2
686340161283. 3
686340161284. 4

Question Number : 21 Question Id : 68634040838 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

Satellite having the same orbital period as the period of rotation of the earth about its own axis is known as

1. Polar Satellite
2. Stationary Satellite
3. Geostationary Satellite
4. INSAT

Options :

686340161281. 1
686340161282. 2
686340161283. 3
686340161284. 4

Question Number : 22 Question Id : 68634040839 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1

Match List I with List II

LIST I Aluminium company		LIST II Location	
A.	BALCO	I.	HIRAKUND
B.	HINDALCO	II.	KORBA
C.	Indian Aluminum Company	III.	KORAPUT
D.	NALCO	IV.	RENUKOAT

Choose the most appropriate answer from the options given below:

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

Options :

686340161285. 1
686340161286. 2
686340161287. 3
686340161288. 4

Question Number : 22 Question Id : 68634040839 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1

Match List I with List II

LIST I Aluminium company		LIST II Location	
A.	BALCO	I.	HIRAKUND
B.	HINDALCO	II.	KORBA
C.	Indian Aluminum Company	III.	KORAPUT
D.	NALCO	IV.	RENUKOAT

Choose the most appropriate answer from the options given below:

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

Options :

686340161285. 1
686340161286. 2
686340161287. 3
686340161288. 4

Question Number : 23 Question Id : 68634040840 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

The speaker can stop a member of Parliament from speaking and let another member speak. This phenomenon is known as _____

1. Decorum
2. Crossing the floor
3. Interpellation
4. Yielding the floor

Options :

686340161289. 1
686340161290. 2
686340161291. 3
686340161292. 4

Question Number : 23 Question Id : 68634040840 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

The speaker can stop a member of Parliament from speaking and let another member speak. This phenomenon is known as _____

1. Decorum
2. Crossing the floor
3. Interpellation
4. Yielding the floor

Options :

686340161289. 1
686340161290. 2
686340161291. 3
686340161292. 4

Question Number : 24 Question Id : 68634040841 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1

Match List I with List II

LIST I Religious Institution		LIST II Founder	
A.	Arya Samaj	I.	Gopal Krishna Gokhle
B.	Ramakrishna Mission	II.	N.M.Joshi
C.	Servant of Indian society	III.	Dayanand Saraswati
D.	Social Sevice League	IV.	Swami Vivekananda

Choose the most appropriate answer from the options given below:

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

Options :

686340161293. 1
686340161294. 2
686340161295. 3
686340161296. 4

Question Number : 24 Question Id : 68634040841 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1

Match List I with List II

LIST I Religious Institution		LIST II Founder	
A.	Arya Samaj	I.	Gopal Krishna Gokhle
B.	Ramakrishna Mission	II.	N.M.Joshi
C.	Servant of Indian society	III.	Dayanand Saraswati
D.	Social Sevice League	IV.	Swami Vivekananda

Choose the most appropriate answer from the options given below:

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

Options :

686340161293. 1
686340161294. 2
686340161295. 3
686340161296. 4

Question Number : 25 Question Id : 68634040842 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1

Point of origin of earthquake wave is known as _____

1. Seismic zone
2. Focus
3. Photosphere
4. Epicentre

Options :

686340161297. 1
686340161298. 2
686340161299. 3
686340161300. 4

Question Number : 25 Question Id : 68634040842 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1

Point of origin of earthquake wave is known as _____

1. Seismic zone
2. Focus
3. Photosphere
4. Epicentre

Options :

686340161297. 1
686340161298. 2
686340161299. 3
686340161300. 4

Part B: Civil Structural Transport Engg

Section Id : 686340804
Section Number : 2
Section type : Online
Mandatory or Optional : Mandatory
Number of Questions : 75
Number of Questions to be attempted : 75
Section Marks : 300
Enable Mark as Answered Mark for Review and Clear Response : Yes
Maximum Instruction Time : 0
Sub-Section Number : 1
Sub-Section Id : 6863401345
Question Shuffling Allowed : Yes
Is Section Default? : null

Question Number : 26 Question Id : 68634040843 Question Type : MCQ Option Shuffling : No Is Question Mandatory :
No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0
Correct Marks : 4 Wrong Marks : 1

A soil sample has a porosity of 40 percent. The void ratio for the same soil sample would be

1. 0.512
2. 0.667
3. 0.517
4. 0.613

Options :

686340161301. 1
686340161302. 2
686340161303. 3
686340161304. 4

Question Number : 26 Question Id : 68634040843 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1

किसी मृदा के नमूने में 40% सरंध्रता है। मृदा के इसी नमूने का रिक्ति अनुपात क्या होगा ?

1. 0.512
2. 0.667
3. 0.517
4. 0.613

Options :

686340161301. 1
686340161302. 2
686340161303. 3
686340161304. 4

Question Number : 27 Question Id : 68634040844 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1

The range of optimum water contents for the standard Proctor test for clayey soil is

1. 6% to 10%
2. 8% to 12%
3. 12% to 15%
4. 14% to 20%

Options :

686340161305. 1
686340161306. 2
686340161307. 3
686340161308. 4

Question Number : 27 Question Id : 68634040844 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1

मृण्मय मृदा में मानक प्रॉक्टर परीक्षण के लिए जल की अधिकतम मात्रा की रेंज (परिसर) क्या होगी ?

1. 6% से 10%
2. 8% से 12%
3. 12% से 15%
4. 14% से 20%

Options :

686340161305. 1
686340161306. 2
686340161307. 3
686340161308. 4

Question Number : 28 Question Id : 68634040845 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

The penetration rate of cylindrical plunger of 5 cm dia cross-section into the soil sample in mm/min in CBR test is

1. 1.5 mm/min
2. 1.25 mm/min
3. 1.15 mm/min
4. 0.10 mm/min

Options :

686340161309. 1
686340161310. 2
686340161311. 3
686340161312. 4

Question Number : 28 Question Id : 68634040845 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

CBR परीक्षण में, किसी 5 cm व्यास वाले वर्गगत बेलनाकार निमज्जक का मृदा के नमूने में mm/min. वेधन दर क्या होगी ?

1. 1.5 mm/min
2. 1.25 mm/min
3. 1.15 mm/min
4. 0.10 mm/min

Options :

- 686340161309. 1
- 686340161310. 2
- 686340161311. 3
- 686340161312. 4

Question Number : 29 Question Id : 68634040846 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0
Correct Marks : 4 Wrong Marks : 1

A horizontal stratified soil deposit consists of three uniform layers of thickness 6 m, 4 m and 12 m respectively.

The permeabilities of these layers are 8×10^{-4} cm/s, 52×10^{-4} cm/s and 6×10^{-4} cm/s. The effective average permeability of the deposit in the vertical direction is

- 1. 5×10^{-4} cm/s
- 2. 7.782×10^{-4} cm/s
- 3. 9.564×10^{-4} cm/s
- 4. 7.782×10^{-4} cm/s

Options :

- 686340161313. 1
- 686340161314. 2
- 686340161315. 3
- 686340161316. 4

Question Number : 29 Question Id : 68634040846 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0
Correct Marks : 4 Wrong Marks : 1

क्षैतिज स्तरित मृदा निक्षेप क्रमशः 6 m, 4 m तथा 12 m की मोटाई वाली तीन एकसमान परतों से बना होता है। इन परतों की पारगम्यताएँ 8×10^{-4} cm/s, 52×10^{-4} cm/s तथा 6×10^{-4} cm/s हैं। निक्षेप की ऊर्ध्व दिशा में प्रभावी औसत पारगम्यता क्या है?

- 1. 5×10^{-4} cm/s
- 2. 7.782×10^{-4} cm/s
- 3. 9.564×10^{-4} cm/s
- 4. 7.782×10^{-4} cm/s

Options :

- 686340161313. 1
- 686340161314. 2
- 686340161315. 3
- 686340161316. 4

Question Number : 30 Question Id : 68634040847 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0
Correct Marks : 4 Wrong Marks : 1

A sample of dry soil weighs 70 grams. Find the volume of voids if the total volume of sample is 40 mL and the specific gravity of solids is 2.65.

1. 5 mL
2. 14 mL
3. 12 mL
4. 13 mL

Options :

686340161317. 1
686340161318. 2
686340161319. 3
686340161320. 4

Question Number : 30 Question Id : 68634040847 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0
Correct Marks : 4 Wrong Marks : 1

शुष्क मृदा के एक नमूने का भार 70 gram है। यदि नमूने का कुल आयतन 40 ml तथा ठोसों का आपेक्षिक घनत्व 2.65 है, तो रिक्तिकाओं का आयतन ज्ञात करें।

1. 5 mL
2. 14 mL
3. 12 mL
4. 13 mL

Options :

686340161317. 1
686340161318. 2
686340161319. 3
686340161320. 4

Question Number : 31 Question Id : 68634040848 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0
Correct Marks : 4 Wrong Marks : 1

The maximum dry density for a soil sample having specific gravity of 2.5 and OMC of 20% is

1. 1.667 g/cm^3
2. 1.517 g/cm^3
3. 1.417 g/cm^3
4. 1.413 g/cm^3

Options :

686340161321. 1
686340161322. 2
686340161323. 3
686340161324. 4

Question Number : 31 Question Id : 68634040848 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

आपेक्षिक घनत्व 2.5 तथा $\text{OMC} = 20\%$ वाले मृदा के नमूने की अधिकतम शुष्क घनत्व क्या होगा?

1. 1.667 g/cm^3
2. 1.517 g/cm^3
3. 1.417 g/cm^3
4. 1.413 g/cm^3

Options :

686340161321. 1
686340161322. 2
686340161323. 3
686340161324. 4

Question Number : 32 Question Id : 68634040849 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

The precipitation is collected and measured in

1. Venturimeter
2. Rain gauge
3. Hydraulic turbine
4. Piezometer

Options :

- 686340161325. 1
- 686340161326. 2
- 686340161327. 3
- 686340161328. 4

Question Number : 32 Question Id : 68634040849 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1

वर्षावृष्टि को संग्रहित करके किससे मापा जाता है?

- 1. वेन्चुरीमापी
- 2. वर्षामापी
- 3. द्रवचालित टरबाइन
- 4. दाबमापी

Options :

- 686340161325. 1
- 686340161326. 2
- 686340161327. 3
- 686340161328. 4

Question Number : 33 Question Id : 68634040850 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1

A hydraulic jump occurring in a rectangular channel having depth before the jump is 0.25 m and depth after the jump is 2.05 m. Estimate the energy loss in the jump.

- 1. 3 m
- 2. 2.845 m
- 3. 2.516 m
- 4. 4 m

Options :

- 686340161329. 1
- 686340161330. 2
- 686340161331. 3
- 686340161332. 4

Question Number : 33 Question Id : 68634040850 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1

किसी आयाताकार चैनल में द्रवीय प्लुति घटित हो रही है। प्लुति से पहले इसकी गहराई 0.25 m तथा प्लुति के बाद की गहराई 2.05 m है। प्लुति में होने वाली ऊर्जा ह्रास कितना होगा?

1. 3 m
2. 2.845 m
3. 2.516 m
4. 4 m

Options :

686340161329. 1
686340161330. 2
686340161331. 3
686340161332. 4

Question Number : 34 Question Id : 68634040851 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

A unit hydrograph has a unit of

1. peak discharge
2. rainfall duration
3. direct runoff
4. the time base of direct runoff

Options :

686340161333. 1
686340161334. 2
686340161335. 3
686340161336. 4

Question Number : 34 Question Id : 68634040851 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

किसी एकक जलारेख की इकाई इनमें से _____ के समान होती है।

1. शिखर आस्राव
2. वर्षा की अवधि
3. प्रत्यक्ष वाह
4. प्रत्यक्ष वाह का समय का आधार

Options :

686340161333. 1
686340161334. 2
686340161335. 3
686340161336. 4

Question Number : 35 Question Id : 68634040852 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

Find the delta for a crop when its duty is 800 hectares/cumec on the field, the base period of this crop is 100 days.

1. 106 cm
2. 107 cm
3. 108 cm
4. 109 cm

Options :

686340161337. 1
686340161338. 2
686340161339. 3
686340161340. 4

Question Number : 35 Question Id : 68634040852 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

किसी सस्य के खेत में मान (duty) 800 हैक्टेयर/cu.sec है तथा उसकी आधार अवधि 100 दिन है। इस सस्य का डेल्टा ज्ञात करें।

1. 106 cm
2. 107 cm
3. 108 cm
4. 109 cm

Options :

686340161337. 1
686340161338. 2
686340161339. 3
686340161340. 4

Question Number : 36 Question Id : 68634040853 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1

Which one of the following units represents the least pressure?

1. millibar
2. mm of mercury
3. N/mm²
4. kgF/cm²

Options :

686340161341. 1
686340161342. 2
686340161343. 3
686340161344. 4

Question Number : 36 Question Id : 68634040853 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1

निम्नलिखित में से कौन सा मात्रक न्यूनतम दाब को प्रदर्शित करते हैं ?

1. मिलीबार
2. पारे का mm
3. N/mm^2
4. kgf/cm^2

Options :

686340161341. 1
686340161342. 2
686340161343. 3
686340161344. 4

Question Number : 37 Question Id : 68634040854 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1

The formula for specific speed (NS) of centrifugal pump is

1. $NS = \frac{N\sqrt{Q}}{H^{3/4}}$
2. $NS = \frac{N\sqrt{Q}}{H^{5/4}}$
3. $NS = \frac{N\sqrt{P}}{H^{3/4}}$
4. $NS = \frac{N\sqrt{P}}{H^{5/4}}$

Options :

686340161345. 1
686340161346. 2
686340161347. 3
686340161348. 4

Question Number : 37 Question Id : 68634040854 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1

अपकेन्द्रीय पम्प की विशिष्ट चाल (NS) का सूत्र क्या है?

1. $NS = \frac{N\sqrt{Q}}{H^{3/4}}$

2. $NS = \frac{N\sqrt{Q}}{H^{5/4}}$

3. $NS = \frac{N\sqrt{P}}{H^{3/4}}$

4. $NS = \frac{N\sqrt{P}}{H^{5/4}}$

Options :

686340161345. 1

686340161346. 2

686340161347. 3

686340161348. 4

Question Number : 38 Question Id : 68634040855 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

The hydrologic flood-routing method uses

1. Equation of continuity only

2. Energy equation only

3. Both momentum and continuity equations

4. Equation of motion only

Options :

686340161349. 1

686340161350. 2

686340161351. 3

686340161352. 4

Question Number : 38 Question Id : 68634040855 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

जलविज्ञानी बाढ़ मार्ग निर्धारण विधि में किसका उपयोग होता है ?

1. केवल सांतत्य समीकरण
2. केवल ऊर्जा समीकरण
3. संवेग तथा सांतत्य समीकरण दोनों
4. केवल गति का समीकरण

Options :

686340161349. 1
686340161350. 2
686340161351. 3
686340161352. 4

Question Number : 39 Question Id : 68634040856 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1

The test most suitable for concrete of very low workability is

1. slump test
2. compaction factor test
3. vee-bee test
4. All options are correct

Options :

686340161353. 1
686340161354. 2
686340161355. 3
686340161356. 4

Question Number : 39 Question Id : 68634040856 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1

अति निम्न कर्मणीयता वाले कंक्रीट के लिए सबसे उपयुक्त परीक्षण कौन सा है ?

1. अवसर्पण परीक्षण
2. संहनन कारक परीक्षण
3. वी-बी परीक्षण (Vee-Bee Test)
4. सभी विकल्प सही हैं

Options :

- 686340161353. 1
- 686340161354. 2
- 686340161355. 3
- 686340161356. 4

Question Number : 40 Question Id : 68634040857 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1

Euler's crippling load for a column of length L with one end fixed and the other hinged is

- 1. $\frac{\pi^2 EI}{L^2}$
- 2. $\frac{4\pi^2 EI}{L^2}$
- 3. $\frac{\pi^2 EI}{4L^2}$
- 4. $\frac{2\pi^2 EI}{L^2}$

Options :

- 686340161357. 1
- 686340161358. 2
- 686340161359. 3
- 686340161360. 4

Question Number : 40 Question Id : 68634040857 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1

किसी L लंबाई वाला स्तंभ, जिसका छोर स्थिर है तथा दूसरा छोर कब्जेदार है, का आयलर का क्रिपलिंग भार क्या होगा?

- 1. $\frac{\pi^2 EI}{L^2}$
- 2. $\frac{4\pi^2 EI}{L^2}$
- 3. $\frac{\pi^2 EI}{4L^2}$
- 4. $\frac{2\pi^2 EI}{L^2}$

Options :

- 686340161357. 1

686340161358. 2
686340161359. 3
686340161360. 4

Question Number : 41 Question Id : 68634040858 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

The expression for maximum bending moment of simply supported beam of length ' l ' carrying a uniformly distributed load of ' w /unit run' over the whole length of the beam is

1. $\frac{wl^3}{8}$

2. $\frac{wl}{2}$

3. $\frac{wl^2}{8}$

4. $\frac{wl^4}{5}$

Options :

686340161361. 1
686340161362. 2
686340161363. 3
686340161364. 4

Question Number : 41 Question Id : 68634040858 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

साधारण रूप से अवलंबित लंबाई l वाली बीम, जिसकी पूरी लंबाई पर एकसमान वितरित भार ' w /unit run' है, के अधिकतम बंकन आघूर्ण को कैसे अभिव्यक्त करेंगे?

1. $\frac{wl^3}{8}$

2. $\frac{wl}{2}$

3. $\frac{wl^2}{8}$

4. $\frac{wl^4}{5}$

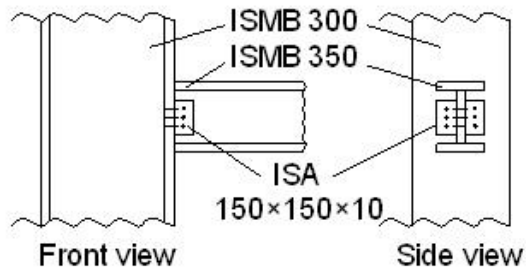
Options :

686340161361. 1

686340161362. 2
686340161363. 3
686340161364. 4

Question Number : 42 Question Id : 68634040859 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0
Correct Marks : 4 Wrong Marks : 1

The bolted connection shown in figure is



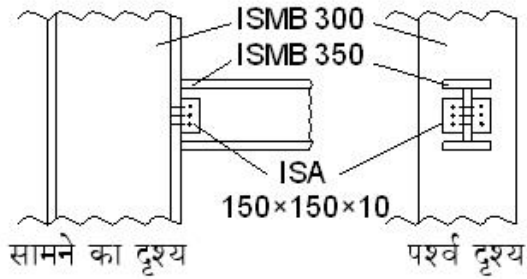
1. HSFG angle connection with column
2. Beam connected with beam
3. Beam to column connection
4. Column connected with column

Options :

686340161365. 1
686340161366. 2
686340161367. 3
686340161368. 4

Question Number : 42 Question Id : 68634040859 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0
Correct Marks : 4 Wrong Marks : 1

चित्र में दर्शाया गया बोल्ट वाला संबंधन निम्न है।



1. स्तंभ में HSFG कोण का संबंधन
2. बीम का बीम से संबंधन
3. बीम का स्तंभ से संबंधन
4. स्तंभ का स्तंभ से संबंधन

Options :

686340161365. 1
686340161366. 2
686340161367. 3
686340161368. 4

Question Number : 43 Question Id : 68634040860 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

When bolts are subjected to combined shear and tension the bolt should be checked for following condition :

$$1. \left(\frac{f_{sb}}{f_{asb}} \right)^2 + \left(\frac{f_{tb}}{f_{atb}} \right)^2 \geq 1$$

$$2. \left(\frac{f_{asb}}{f_{sb}} \right)^2 + \left(\frac{f_{atb}}{f_{tb}} \right)^2 = 0$$

$$3. \left(\frac{f_{asb}}{f_{sb}} \right)^2 + \left(\frac{f_{atb}}{f_{sb}} \right)^2 \leq 1$$

$$4. \left(\frac{f_{sb}}{f_{asb}} \right)^2 + \left(\frac{f_{tb}}{f_{atb}} \right)^2 \leq 1$$

Options :

686340161369. 1
686340161370. 2
686340161371. 3

Question Number : 43 Question Id : 68634040860 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

जब कुंदे अपरूपण तथा तनाव का संयोजन करते हैं, तो कुंदे का निम्न स्थितियों के लिए परीक्षण किया जाना चाहिए।

$$1. \left(\frac{f_{sb}}{f_{asb}} \right)^2 + \left(\frac{f_{tb}}{f_{atb}} \right)^2 \geq 1$$

$$2. \left(\frac{f_{asb}}{f_{sb}} \right)^2 + \left(\frac{f_{atb}}{f_{tb}} \right)^2 = 0$$

$$3. \left(\frac{f_{asb}}{f_{sb}} \right)^2 + \left(\frac{f_{atb}}{f_{tb}} \right)^2 \leq 1$$

$$4. \left(\frac{f_{sb}}{f_{asb}} \right)^2 + \left(\frac{f_{tb}}{f_{atb}} \right)^2 \leq 1$$

Options :

686340161369. 1

686340161370. 2

686340161371. 3

686340161372. 4

Question Number : 44 Question Id : 68634040861 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

The slenderness ratio of a web of beam section from diagonal buckling consideration is given by

$$1. \frac{d}{t_w}$$

$$2. 2.45 \frac{d}{t_w}$$

$$3. 85 \frac{d}{t_w}$$

$$4. 67 \frac{d}{t_w}$$

Options :

686340161373. 1

686340161374. 2

686340161375. 3

686340161376. 4

Question Number : 44 Question Id : 68634040861 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

विकीर्ण पृष्ठपोषण को ध्यान में रखते हुए किसी बीम के खंड के जाल का कृशता अनुपात निम्न में से किसके द्वारा दर्शाया जाता है?

1. $\frac{d}{t_w}$

2. $2.45 \frac{d}{t_w}$

3. $85 \frac{d}{t_w}$

4. $67 \frac{d}{t_w}$

Options :

686340161373. 1

686340161374. 2

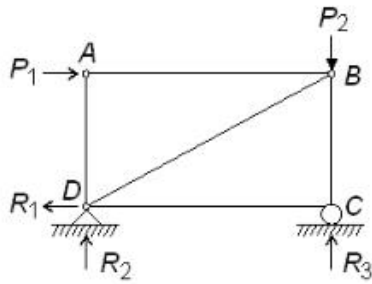
686340161375. 3

686340161376. 4

Question Number : 45 Question Id : 68634040862 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

The truss $ABCD$ shown in figure is loaded by the forces P_1 , P_2 . The reactions are R_1 , R_2 and R_3 .



The force system is

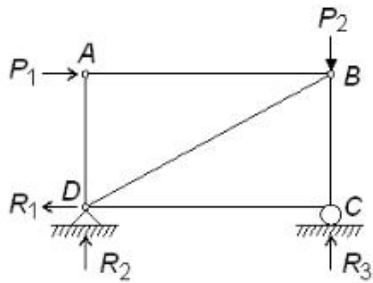
1. statically indeterminate
2. statically determinate (internally)
3. statically determinate (externally)
4. statically indeterminate (internally)

Options :

686340161377. 1
686340161378. 2
686340161379. 3
686340161380. 4

Question Number : 45 Question Id : 68634040862 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1

चित्र में दिखाए गए ट्रस $ABCD$ को P_1 तथा P_2 बलों द्वारा भारित किया गया है। R_1 , R_2 तथा R_3 अभिक्रियाएँ हैं।



बलों की व्यवस्था कैसी है?

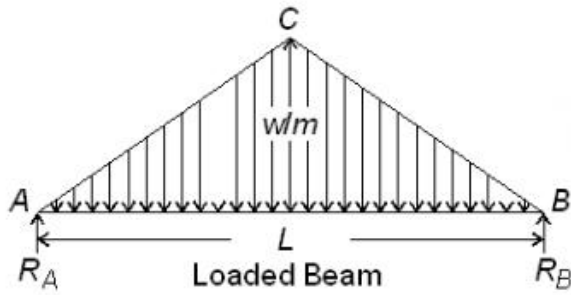
1. स्थैतिकतः अपरिमित
2. स्थैतिकतः परिमित (आंतरिक रूप से)
3. स्थैतिकतः परिमित (बाह्य रूप से)
4. स्थैतिकतः अपरिमित (आंतरिक रूप से)

Options :

686340161377. 1
686340161378. 2
686340161379. 3
686340161380. 4

Question Number : 46 Question Id : 68634040863 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0
Correct Marks : 4 Wrong Marks : 1

A beam is loaded as shown in figure. Which option represents correct shear force diagram (SFD)?



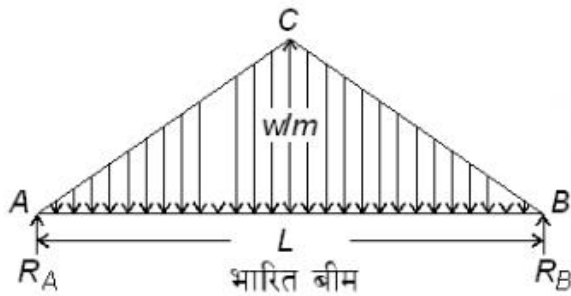
- 1.
- 2.
- 3.
- 4.

Options :

686340161381. 1
 686340161382. 2
 686340161383. 3
 686340161384. 4

Question Number : 46 Question Id : 68634040863 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1

किसी बीम को चित्र में दर्शाए अनुसार भारित किया गया है। कौन सा विकल्प सही कतरनी बल वाले चित्र (SFD) को दर्शाता है?



- 1.
- 2.
- 3.
- 4.

Options :

686340161381. 1
 686340161382. 2
 686340161383. 3
 686340161384. 4

Question Number : 47 Question Id : 68634040864 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

According to IRC : 73 – 1980 [79], perception reaction time for braking is suggested as

1. 1.5 sec
2. 2 sec
3. 2.5 sec
4. 3 sec

Options :

- 686340161385. 1
- 686340161386. 2
- 686340161387. 3
- 686340161388. 4

Question Number : 47 Question Id : 68634040864 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1

IRC : 73 – 1980 [79] के अनुसार, आरोध के लिए सुझावित अवगम अभिक्रिया समय क्या है?

- 1. 1.5 sec
- 2. 2 sec
- 3. 2.5 sec
- 4. 3 sec

Options :

- 686340161385. 1
- 686340161386. 2
- 686340161387. 3
- 686340161388. 4

Question Number : 48 Question Id : 68634040865 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1

Head light sight distance should be as minimum value as

- 1. Sight distance
- 2. Stopping sight distance
- 3. Overtaking sight distance
- 4. Intermediate sight distance

Options :

- 686340161389. 1
- 686340161390. 2
- 686340161391. 3
- 686340161392. 4

Question Number : 48 Question Id : 68634040865 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1

हैड लाइट को देख पाने की दूरी का _____ यथा समान न्यूनतम मान होना चाहिए।

1. दर्श दूरी
2. दर्श दूरी का रोधन
3. दर्श दूरी से आगे निकलना
4. मध्यवर्ती दर्श दूरी

Options :

686340161389. 1
686340161390. 2
686340161391. 3
686340161392. 4

Question Number : 49 Question Id : 68634040866 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

In which year, the Motor Vehicles Act was brought into effect by the government of India to regulate the road traffic in the form of traffic laws, ordinances and regulations?

1. 1939
2. 1945
3. 1947
4. 1949

Options :

686340161393. 1
686340161394. 2
686340161395. 3
686340161396. 4

Question Number : 49 Question Id : 68634040866 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

सड़क यातायात के नियमन के लिए यातायात कानूनों, अध्यादेशों तथा नियंत्रणों के रूप में, किस वर्ष में भारत सरकार द्वारा मोटर वाहन अधिनियम को लागू किया गया था?

1. 1939
2. 1945
3. 1947
4. 1949

Options :

686340161393. 1
686340161394. 2
686340161395. 3
686340161396. 4

Question Number : 50 Question Id : 68634040867 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0
Correct Marks : 4 Wrong Marks : 1

Which of the following tests is performed on Bituminous binder?

1. Plate load test
2. Ductility test
3. CBR test
4. Abrasion test

Options :

686340161397. 1
686340161398. 2
686340161399. 3
686340161400. 4

Question Number : 50 Question Id : 68634040867 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0
Correct Marks : 4 Wrong Marks : 1

बिटुमेन बंधक/वेजक पर निम्न में से कौन सा परीक्षण किया जाता है?

1. पट्टिका/प्लेट भार परीक्षण
2. तन्यता परीक्षण
3. CBR परीक्षण
4. अपघर्षण परीक्षण

Options :

- 686340161397. 1
- 686340161398. 2
- 686340161399. 3
- 686340161400. 4

Question Number : 51 Question Id : 68634040868 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1

For design of superelevation for mixed traffic condition, the speed is _____ of design speed.

- 1. 90%
- 2. 85%
- 3. 75%
- 4. 65%

Options :

- 686340161401. 1
- 686340161402. 2
- 686340161403. 3
- 686340161404. 4

Question Number : 51 Question Id : 68634040868 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1

मिश्रित यातायात की स्थिति में सुपर-उच्चता के लिए गति, डिज़ाइन गति की _____ है।

- 1. 90%
- 2. 85%
- 3. 75%
- 4. 65%

Options :

- 686340161401. 1
- 686340161402. 2
- 686340161403. 3
- 686340161404. 4

Question Number : 52 Question Id : 68634040869 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1

At a sewage treatment plant for a flow of $3 \text{ m}^3/\text{s}$, and rate of velocity 0.3 m/s (horizontal), the cross-sectional area of grit chamber will be about

1. 3 m^2
2. 10 m^2
3. 25 m^2
4. 30 m^2

Options :

686340161405. 1
686340161406. 2
686340161407. 3
686340161408. 4

Question Number : 52 Question Id : 68634040869 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

वाहितमल जल उपचार संयंत्र में $3 \text{ m}^3/\text{s}$ के बहाव के लिए तथा (क्षैतिज) वेग की दर 0.3 m/s है, तो ग्रिट कक्ष का अनुप्रस्थ परिच्छेदित क्षेत्र लगभग _____ होगा।

1. 3 m^2
2. 10 m^2
3. 25 m^2
4. 30 m^2

Options :

686340161405. 1
686340161406. 2
686340161407. 3
686340161408. 4

Question Number : 53 Question Id : 68634040870 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

Chlorine usage in the treatment of 20,000 cubic meter per day is 10 kg/day. The residual after 10 minute contact is 0.20 mg/L. Calculate the dosage in milligram per litre and chlorine demand of water.

1. 0.6 mg/l & 0.1 mg/l
2. 0.4 mg/l & 0.2 mg/l
3. 0.5 mg/l & 0.3 mg/l
4. 0.3 mg/l & 0.4 mg/l

Options :

686340161409. 1
686340161410. 2
686340161411. 3
686340161412. 4

Question Number : 53 Question Id : 68634040870 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0
Correct Marks : 4 Wrong Marks : 1

प्रति दिन 20,000 cubic meter जल के उपचार के लिए क्लोरिन का उपयोग 10 kg./day होता है। 10 मिनट के संपर्क के बाद 0.20 mg/L अवशिष्ट होता है। जल के लिए क्लोरिन की आवश्यकता की मात्रा की गणना mg/l में करें।

1. 0.6 mg/l & 0.1 mg/l
2. 0.4 mg/l & 0.2 mg/l
3. 0.5 mg/l & 0.3 mg/l
4. 0.3 mg/l & 0.4 mg/l

Options :

686340161409. 1
686340161410. 2
686340161411. 3
686340161412. 4

Question Number : 54 Question Id : 68634040871 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0
Correct Marks : 4 Wrong Marks : 1

Which one is primary pollutant?

1. H_2SO_4
2. HNO_3
3. CO
4. HCO_3

Options :

686340161413. 1
686340161414. 2
686340161415. 3
686340161416. 4

Question Number : 54 Question Id : 68634040871 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1

निम्नलिखित में से प्राथमिक प्रदूषक कौन सा है?

1. H_2SO_4
2. HNO_3
3. CO
4. HCO_3

Options :

686340161413. 1
686340161414. 2
686340161415. 3
686340161416. 4

Question Number : 55 Question Id : 68634040872 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1

For a mixture volume of 200 ml, 127 ml of distilled water is required to render the odour barely detectable. The threshold number (TON) is

1. 2.36
2. 2.74
3. 2.52
4. 2.97

Options :

- 686340161417. 1
- 686340161418. 2
- 686340161419. 3
- 686340161420. 4

Question Number : 55 Question Id : 68634040872 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1

किसी मिश्रण में गंध को स्पष्ट रूप से पता लगाकर प्रस्तुत करने के लिए 200 ml, 127 ml आसुत जल की आवश्यकता होती है। थ्रेशहोल्ड संख्या (TON) _____ है।

- 1. 2.36
- 2. 2.74
- 3. 2.52
- 4. 2.97

Options :

- 686340161417. 1
- 686340161418. 2
- 686340161419. 3
- 686340161420. 4

Question Number : 56 Question Id : 68634040873 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1

If the BOD_3 of a waste water is 75 mg/l and the K is 0.15 day^{-1} , the ultimate BOD is

- 1. 109 mg/l
- 2. 116 mg/l
- 3. 120 mg/l
- 4. 150 mg/l

Options :

- 686340161421. 1
- 686340161422. 2
- 686340161423. 3
- 686340161424. 4

Question Number : 56 Question Id : 68634040873 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1

यदि व्यर्थ जल का BOD_3 , 75 mg/L है तथा K 0.15 day^{-1} है, तो इसका अंतिम BOD कितना होगा ?

1. 109 mg/l
2. 116 mg/l
3. 120 mg/l
4. 150 mg/l

Options :

686340161421. 1
686340161422. 2
686340161423. 3
686340161424. 4

Question Number : 57 Question Id : 68634040874 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1

The moisture content on wet basis is calculated by

1. $\left(\frac{W-D}{D}\right) \times 100$
2. $\left(\frac{W-D}{W}\right) \times 100$
3. $\left(\frac{D-W}{D}\right) \times 100$
4. $\left(\frac{D-W}{W}\right) \times 100$

Options :

686340161425. 1
686340161426. 2
686340161427. 3
686340161428. 4

Question Number : 57 Question Id : 68634040874 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1

गैलेपन के आधार पर आर्द्रता की मात्रा की गणना किसके द्वारा की जाती है?

1. $\left(\frac{W-D}{D}\right) \times 100$

2. $\left(\frac{W-D}{W}\right) \times 100$

3. $\left(\frac{D-W}{D}\right) \times 100$

4. $\left(\frac{D-W}{W}\right) \times 100$

Options :

686340161425. 1

686340161426. 2

686340161427. 3

686340161428. 4

Question Number : 58 Question Id : 68634040875 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1

Simpson's rule of calculating area is applicable only when the ordinates are

1. odd

2. even

3. Either (1) of (2)

4. None of the above

Options :

686340161429. 1

686340161430. 2

686340161431. 3

686340161432. 4

Question Number : 58 Question Id : 68634040875 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1

क्षेत्रफल की गणना करने के लिए सिम्पसन का नियम तभी लागू होता है जब कोटि _____ होते हैं।

1. विसम
2. सम
3. या तो (1) या (2)
4. उपर्युक्त में से कोई नहीं

Options :

686340161429. 1
686340161430. 2
686340161431. 3
686340161432. 4

Question Number : 59 Question Id : 68634040876 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1

Pick up the correct statement :

1. The limiting length of an offset is independent of the scale of plotting
2. Sag correction may be positive or negative
3. The slope correction is always subtractive
4. Error due to lying of the direction of offset is negligible

Options :

686340161433. 1
686340161434. 2
686340161435. 3
686340161436. 4

Question Number : 59 Question Id : 68634040876 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1

सही कथन का चयन करें।

1. किसी ऑफसेट की सीमांत लंबाई आलेखन के पैमाने से स्वतंत्र होती है।
2. आनमन संशोधन धनात्मक भी हो सकता है तथा ऋणात्मक भी।
3. प्रवणता संशोधन सदैव व्यवकलनात्मक होता है।
4. ऑफसेट की मिथ्या/शचित दिशा के कारण होने वाली त्रुटि नगण्य होती है।

Options :

- 686340161433. 1
- 686340161434. 2
- 686340161435. 3
- 686340161436. 4

Question Number : 60 Question Id : 68634040877 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1

The Benchmark (BM) fixed at the end of day's work is called the

- 1. Permanent BM
- 2. Arbitrary BM
- 3. GTS BM
- 4. Temporary BM

Options :

- 686340161437. 1
- 686340161438. 2
- 686340161439. 3
- 686340161440. 4

Question Number : 60 Question Id : 68634040877 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1

दिन भर के कार्य के अंत में निर्धारित किया गया बेंचमार्क (BM) क्या कहलाता है?

- 1. स्थाई BM
- 2. विवेकाधीन BM
- 3. GTS BM
- 4. अस्थायी BM

Options :

- 686340161437. 1
- 686340161438. 2
- 686340161439. 3
- 686340161440. 4

Question Number : 61 Question Id : 68634040878 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1

Energy in remote sensing deals with which region of electromagnetic spectrum?

1. Ultraviolet
2. X-ray
3. Gamma ray
4. Infrared

Options :

686340161441. 1
686340161442. 2
686340161443. 3
686340161444. 4

Question Number : 61 Question Id : 68634040878 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

सुदूर संवेदी में ऊर्जा वैद्युतचुम्बकीय स्पेक्ट्रम के किस क्षेत्र से संबंधित है?

1. पैराबैंगनी
2. X-किरणें
3. गामा किरणें
4. इन्फ्रारैड

Options :

686340161441. 1
686340161442. 2
686340161443. 3
686340161444. 4

Question Number : 62 Question Id : 68634040879 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

In plane table survey of small extent, the accuracy of plotted work can be enhanced by use of tachometer in which of the following methods?

1. Traversing
2. Resection
3. Intersection
4. Radiation

Options :

686340161445. 1
686340161446. 2
686340161447. 3
686340161448. 4

Question Number : 62 Question Id : 68634040879 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0
Correct Marks : 4 Wrong Marks : 1

कम विस्तार वाले समतलीय टेबल सर्वेक्षण में, टैकोमीटर द्वारा निम्न में से किस विधि के प्रयोग से आलेखित कार्य की परिशुद्धता को बढ़ाया जा सकता है?

1. चक्रमण
2. स्थिति निर्धारण
3. प्रतिच्छेदन
4. विकिरण

Options :

686340161445. 1
686340161446. 2
686340161447. 3
686340161448. 4

Question Number : 63 Question Id : 68634040880 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0
Correct Marks : 4 Wrong Marks : 1

Which one of the following expressions gives intermediate sight distance as per IRC standards (SSD-Stopping Sight Distance; OSD-Overtaking Sight Distance)?

1. $\frac{(OSD - SSD)}{2}$
2. 2 OSD
3. $\frac{(SSD + OSD)}{2}$
4. 2 SSD

Options :

686340161449. 1
686340161450. 2
686340161451. 3
686340161452. 4

Question Number : 63 Question Id : 68634040880 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0
Correct Marks : 4 Wrong Marks : 1

निम्नलिखित अभिव्यक्तियों में से किसके द्वारा मध्यवर्ती दर्श दूरी I.R.C. मानकों के अनुसार प्राप्त होती है? (SSD - दर्श दूरी रोधन; OSD - दर्श दूरी से आगे निकलना)

1. $\frac{(OSD - SSD)}{2}$

2. 2 OSD

3. $\frac{(SSD + OSD)}{2}$

4. 2 SSD

Options :

686340161449. 1

686340161450. 2

686340161451. 3

686340161452. 4

Question Number : 64 Question Id : 68634040881 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

The fundamental time period of all other buildings is including moment resisting RC frames with brick infill-walls is taken as

1. $0.075 h^{0.75}$

2. $0.085 h^{0.75}$

3. $\frac{0.09 h}{\sqrt{d}}$

4. $\frac{0.09 \sqrt{h}}{d}$

Options :

686340161453. 1

686340161454. 2

686340161455. 3

686340161456. 4

Question Number : 64 Question Id : 68634040881 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

सभी अन्य इमारतें जिनमें आघूर्ण रोधी R.C. फ्रेम, इष्टिका आपूर्णित-दीवारों सहित शामिल हैं, की मूल समयावधि निम्न में से किसके अनुसार ली जाती है?

1. $0.075 h^{0.75}$

2. $0.085 h^{0.75}$

3. $\frac{0.09 h}{\sqrt{d}}$

4. $\frac{0.09 \sqrt{h}}{d}$

Options :

686340161453. 1

686340161454. 2

686340161455. 3

686340161456. 4

Question Number : 65 Question Id : 68634040882 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

Earthquake causes horizontal and vertical accelerations in the masonry structure. The magnitude of the forces induced in structure depends on the

1. Age of building
2. Strength of mortar
3. Type of roof
4. Mass of structure

Options :

686340161457. 1

686340161458. 2

686340161459. 3

686340161460. 4

Question Number : 65 Question Id : 68634040882 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

चिनाई संरचना में भूकम्प के कारण क्षैतिज तथा अर्ध त्वरणताएँ होती हैं। संरचना में प्रेरित बलों का परिमाण निम्न में से किस पर निर्भर करता है?

1. कितने वर्ष पुराना भवन
2. मोर्टार को मज़बूती
3. छत का प्रकार
4. संरचना का द्रव्यमान

Options :

686340161457. 1
686340161458. 2
686340161459. 3
686340161460. 4

Question Number : 66 Question Id : 68634040883 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0
Correct Marks : 4 Wrong Marks : 1

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

Assertion (A) : $\int \frac{dx}{x^2 + 2x + 3} = \frac{1}{\sqrt{2}} \tan^{-1} \left(\frac{x+1}{\sqrt{2}} \right) + c$

Reason (R) : $\int \frac{dx}{x^2 + a^2} = \frac{1}{a} \tan^{-1} \left(\frac{x}{a} \right) + c$

In the light of the above statements, choose the **correct** answer from the options given below.

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

Options :

686340161461. 1
686340161462. 2
686340161463. 3
686340161464. 4

Question Number : 66 Question Id : 68634040883 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0
Correct Marks : 4 Wrong Marks : 1

नीचे दो कथन दिए गए हैं : एक **अभिकथन (Assertion A)** के रूप में लिखित है तो दूसरा उसके **कारण (Reason R)** के रूप में :

अभिकथन (A) : $\int \frac{dx}{x^2 + 2x + 3} = \frac{1}{\sqrt{2}} \tan^{-1} \left(\frac{x+1}{\sqrt{2}} \right) + c$

कारण (R) : $\int \frac{dx}{x^2 + a^2} = \frac{1}{a} \tan^{-1} \left(\frac{x}{a} \right) + c$

उपरोक्त कथन के आलोक में, नीचे दिए गए विकल्पों में से **सही उत्तर** का चयन कीजिए :

1. (A) और (R) दोनों सत्य हैं और (R), (A) की सही व्याख्या है।
2. (A) और (R) दोनों सत्य हैं, लेकिन (R), (A) की सही व्याख्या नहीं है।
3. (A) सत्य है, लेकिन (R) असत्य है।
4. (A) असत्य है, लेकिन (R) सत्य है।

Options :

686340161461. 1
686340161462. 2
686340161463. 3
686340161464. 4

Question Number : 67 Question Id : 68634040884 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

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

Assertion (A) : If A is square matrix such that $A^2 = A$ then $(I + A^2) - 3A = I$

Reason (R) : $AI = IA = A$

In the light of the above statements, choose the **correct** answer from the options given below.

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

Options :

686340161465. 1
686340161466. 2
686340161467. 3
686340161468. 4

Question Number : 67 Question Id : 68634040884 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

नीचे दो कथन दिए गए हैं : एक **अभिकथन (Assertion A)** के रूप में लिखित है तो दूसरा उसके **कारण (Reason R)** के रूप में :

अभिकथन (A) : यदि A इस प्रकार का वर्ग आव्यूह है कि $A^2 = A$, तो $(I + A^2) - 3A = I$

कारण (R) : $AI = IA = A$

उपरोक्त कथन के आलोक में, नीचे दिए गए विकल्पों में से **सही उत्तर** का चयन कीजिए :

1. **(A)** और **(R)** दोनों सत्य हैं और **(R)**, **(A)** की सही व्याख्या है।
2. **(A)** और **(R)** दोनों सत्य हैं, लेकिन **(R)**, **(A)** की सही व्याख्या नहीं है।
3. **(A)** सत्य है, लेकिन **(R)** असत्य है।
4. **(A)** असत्य है, लेकिन **(R)** सत्य है।

Options :

- 686340161465. 1
- 686340161466. 2
- 686340161467. 3
- 686340161468. 4

Question Number : 68 Question Id : 68634040885 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

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

Assertion (A) : The sum of the probabilities of all elementary events of an experiment is 1.

Reason (R) : If an event can not occur, then its probability is 0.

In the light of the above statements, choose the **correct** answer from the options given below.

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

Options :

- 686340161469. 1
- 686340161470. 2
- 686340161471. 3
- 686340161472. 4

Question Number : 68 Question Id : 68634040885 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

नीचे दो कथन दिए गए हैं : एक **अभिकथन (Assertion A)** के रूप में लिखित है तो दूसरा उसके **कारण (Reason R)** के रूप में :

अभिकथन (A) : प्रयोग में सभी प्राथमिक घटनाओं की प्रायिकताओं का कुल योग 1 होता है।

कारण (R) : यदि कोई घटना घटित नहीं होती है, तो उसकी प्रायिकता 0 होती है।

उपरोक्त कथन के आलोक में, नीचे दिए गए विकल्पों में से **सही उत्तर** का चयन कीजिए :

1. (A) और (R) दोनों सत्य हैं और (R), (A) की सही व्याख्या है।
2. (A) और (R) दोनों सत्य हैं, लेकिन (R), (A) की सही व्याख्या नहीं है।
3. (A) सत्य है, लेकिन (R) असत्य है।
4. (A) असत्य है, लेकिन (R) सत्य है।

Options :

- 686340161469. 1
- 686340161470. 2
- 686340161471. 3
- 686340161472. 4

Question Number : 69 Question Id : 68634040886 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

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

Assertion (A) : Estimation of settlement of foundation on sandy soil can be done by using SPT values.

Reason (R) : Sampling in cohesionless soils without disturbing the structure is difficult.

In the light of the above statements, choose the **correct** answer from the options given below.

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

Options :

- 686340161473. 1
- 686340161474. 2
- 686340161475. 3
- 686340161476. 4

Question Number : 69 Question Id : 68634040886 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

नीचे दो कथन दिए गए हैं : एक **अभिकथन (Assertion A)** के रूप में लिखित है तो दूसरा उसके **कारण (Reason R)** के रूप में :

अभिकथन (A) : SPT मानों का उपयोग करके रेतीली मृदा पर नींव के व्यवस्थापन का पूर्वानुमान लगाया जा सकता है।

कारण (R) : संरचना में व्यवधान उत्पन्न किये बिना संसक्तिहीन मृदा में प्रतिचयन करना कठिन है।

उपरोक्त कथन के आलोक में, नीचे दिए गए विकल्पों में से **सही उत्तर** का चयन कीजिए :

1. (A) और (R) दोनों सत्य हैं और (R), (A) की सही व्याख्या है।
2. (A) और (R) दोनों सत्य हैं, लेकिन (R), (A) की सही व्याख्या नहीं है।
3. (A) सत्य है, लेकिन (R) असत्य है।
4. (A) असत्य है, लेकिन (R) सत्य है।

Options :

- 686340161473. 1
- 686340161474. 2
- 686340161475. 3
- 686340161476. 4

Question Number : 70 Question Id : 68634040887 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

Given below are two statements: one is labelled as **Assertion (A)** and the other is labelled as **Reason (R)** :
Assertion (A) : At the standard temperature, the kinematic viscosity of air is greater than that of water at the same temperature.

Reason (R) : The dynamic viscosity of air at standard temperature is lower than that of water at the same temperature.

In the light of the above statements, choose the **correct** answer from the options given below.

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

Options :

- 686340161477. 1
- 686340161478. 2
- 686340161479. 3
- 686340161480. 4

Question Number : 70 Question Id : 68634040887 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

नीचे दो कथन दिए गए हैं : एक **अभिकथन (Assertion A)** के रूप में लिखित है तो दूसरा उसके **कारण (Reason R)** के रूप में :

अभिकथन (A) : मानक तापमान पर, हवा की शुद्ध गतिक श्यानता, उसी तापमान पर जल की शुद्ध गतिक श्यानता से अधिक होती है।

कारण (R) : मानक तापमान पर, हवा की गतिक श्यानता, उसी तापमान पर जल की गतिक श्यानता से कम होती है।

उपरोक्त कथन के आलोक में, नीचे दिए गए विकल्पों में से **सही उत्तर** का चयन कीजिए :

1. (A) और (R) दोनों सत्य हैं और (R), (A) की सही व्याख्या है।
2. (A) और (R) दोनों सत्य हैं, लेकिन (R), (A) की सही व्याख्या नहीं है।
3. (A) सत्य है, लेकिन (R) असत्य है।
4. (A) असत्य है, लेकिन (R) सत्य है।

Options :

- 686340161477. 1
- 686340161478. 2
- 686340161479. 3
- 686340161480. 4

Question Number : 71 Question Id : 68634040888 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

Given below are two statements: one is labelled as **Assertion (A)** and the other is labelled as **Reason (R)** :
Assertion (A) : California bearing ratio test is carried out to evaluate the stability of soil subgrade and other flexible pavement materials.

Reason (R) : It is essential that at no time are the soil subgrade as well as other flexible pavement materials get overstressed.

In the light of the above statements, choose the **correct** answer from the options given below.

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

Options :

- 686340161481. 1
- 686340161482. 2
- 686340161483. 3
- 686340161484. 4

Question Number : 71 Question Id : 68634040888 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

नीचे दो कथन दिए गए हैं : एक **अभिकथन (Assertion A)** के रूप में लिखित है तो दूसरा उसके **कारण (Reason R)** के रूप में :

अभिकथन (A) : मृदा उपश्रेणी (subgrade) की स्थिरता तथा फर्श बनाने के अन्य नम्य सामग्रियों का मूल्यांकन कैलिफोर्निया बियरिंग अनुपात परीक्षण द्वारा किया जाता है।

कारण (R) : यह अनिवार्य है कि किसी भी समय पर मृदा सबग्रेड तथा फर्श बनाने की अन्य नम्य सामग्रियों पर अत्यधिक बोझ न डाला जाए।

उपरोक्त कथन के आलोक में, नीचे दिए गए विकल्पों में से **सही उत्तर** का चयन कीजिए :

1. (A) और (R) दोनों सत्य हैं और (R), (A) की सही व्याख्या है।
2. (A) और (R) दोनों सत्य हैं, लेकिन (R), (A) की सही व्याख्या नहीं है।
3. (A) सत्य है, लेकिन (R) असत्य है।
4. (A) असत्य है, लेकिन (R) सत्य है।

Options :

- 686340161481. 1
- 686340161482. 2
- 686340161483. 3
- 686340161484. 4

Question Number : 72 Question Id : 68634040889 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1

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

Assertion (A) : Alum is most commonly used coagulant in water treatment.

Reason (R) : Alum is very effective in killing pathogens present in water.

In the light of the above statements, choose the **correct** answer from the options given below.

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

Options :

- 686340161485. 1
- 686340161486. 2
- 686340161487. 3
- 686340161488. 4

Question Number : 72 Question Id : 68634040889 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1

नीचे दो कथन दिए गए हैं : एक **अभिकथन (Assertion A)** के रूप में लिखित है तो दूसरा उसके **कारण (Reason R)** के रूप में :

अभिकथन (A) : जल उपचार के लिए फिटकरी का उपयोग अधिकांशतः एक स्कंदक के रूप में किया जाता है।

कारण (R) : जल में विद्यमान रोगजनकों को नष्ट करने के लिए फिटकरी बहुत प्रभावशाली है।

उपरोक्त कथन के आलोक में, नीचे दिए गए विकल्पों में से **सही उत्तर** का चयन कीजिए :

1. **(A)** और **(R)** दोनों सत्य हैं और **(R)**, **(A)** की सही व्याख्या है।
2. **(A)** और **(R)** दोनों सत्य हैं, लेकिन **(R)**, **(A)** की सही व्याख्या नहीं है।
3. **(A)** सत्य है, लेकिन **(R)** असत्य है।
4. **(A)** असत्य है, लेकिन **(R)** सत्य है।

Options :

- 686340161485. 1
- 686340161486. 2
- 686340161487. 3
- 686340161488. 4

Question Number : 73 Question Id : 68634040890 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

Arrange the following columns of given end condition according to ascending order of effective length :

- A. Column with both ends fixed
- B. Column having one end fixed and other end free
- C. Column having one end fixed and other end hinged
- D. Column having both the ends hinged

Choose the correct answer from the options given below.

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

Options :

- 686340161489. 1
- 686340161490. 2
- 686340161491. 3
- 686340161492. 4

Question Number : 73 Question Id : 68634040890 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

नीचे दिए गए कॉलमों के छोरों (ends) को स्थितियाँ दी गई हैं। इनको लंबाई की प्रभाविता के अनुसार इन्हें आरोही क्रम में व्यवस्थित करें।

- A. कॉलम (स्तंभ) जिसके दोनों छोर स्थिर हैं।
- B. कॉलम जिसका एक छोर स्थिर है तथा दूसरा छोर स्वतंत्र है।
- C. कॉलम जिसका एक छोर स्थिर है तथा दूसरा छोर कब्जेदार है।
- D. कॉलम जिसके दोनों छोर कब्जेदार हैं।

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

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

Options :

- 686340161489. 1
- 686340161490. 2
- 686340161491. 3
- 686340161492. 4

Question Number : 74 Question Id : 68634040891 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1

Arrange the sand according to zone requiring higher water cement ratio to lower :

- A. Zone I
- B. Zone II
- C. Zone III
- D. Zone IV
- E. Zone V

Choose the correct answer from the options given below.

- 1. Zone V, Zone IV, Zone III, Zone II and Zone I
- 2. Zone I, Zone II, Zone III, Zone IV and Zone V
- 3. Zone I, Zone II, Zone III and Zone IV
- 4. Zone IV, Zone III, Zone II and Zone I

Options :

- 686340161493. 1
- 686340161494. 2
- 686340161495. 3

Question Number : 74 Question Id : 68634040891 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0
Correct Marks : 4 Wrong Marks : 1

रेत को उच्च जल सीमेंट अनुपात वाले क्षेत्र से निम्न जल सीमेंट अनुपात की आवश्यकता वाले क्षेत्र में व्यवस्थित करें।

- A. क्षेत्र I
- B. क्षेत्र II
- C. क्षेत्र III
- D. क्षेत्र IV
- E. क्षेत्र V

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

1. क्षेत्र V, क्षेत्र IV, क्षेत्र III, क्षेत्र II और क्षेत्र I
2. क्षेत्र I, क्षेत्र II, क्षेत्र III, क्षेत्र IV और क्षेत्र V
3. क्षेत्र I, क्षेत्र II, क्षेत्र III और क्षेत्र IV
4. क्षेत्र IV, क्षेत्र III, क्षेत्र II और क्षेत्र I

Options :

- 686340161493. 1
- 686340161494. 2
- 686340161495. 3
- 686340161496. 4

Question Number : 75 Question Id : 68634040892 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0
Correct Marks : 4 Wrong Marks : 1

Which of the following are the criteria associated with the design of sag vertical curve?

- A. Provision of minimum stopping distance during day time
- B. Adequate drainage
- C. Comfortable operation
- D. Pleasant appearance
- E. Drainage

Choose the correct answer from the options given below.

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

Options :

- 686340161497. 1
- 686340161498. 2
- 686340161499. 3
- 686340161500. 4

Question Number : 75 Question Id : 68634040892 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1

नम्नलिखित में से कौन सा मानदंड आनमन ऊर्ध्व वक्र से संबंधित हैं?

- A. दिन के समय न्यूनतम अवरोधप दूरी का प्रावधान
- B. पर्याप्त निकासी
- C. आरामदेह संक्रिया
- D. सुखद उपस्थिति
- E. निकासी

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

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

Options :

- 686340161497. 1
- 686340161498. 2
- 686340161499. 3

Question Number : 76 Question Id : 68634040893 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1

Which of the following are claimed as factors that influence the sedimentation?

- A. Size, shape and weight of the particle
- B. Viscosity and temperature of water
- C. Surface overflow rate, surface area and velocity of flow
- D. Inlet and outlet arrangement
- E. Detention periods and effective depth of basin

Choose the correct answer from the options given below.

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

Options :

- 686340161501. 1
- 686340161502. 2
- 686340161503. 3
- 686340161504. 4

Question Number : 76 Question Id : 68634040893 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1

निम्नलिखित में से कौन से कारक अवसादन को प्रभावित करते हैं?

- A. कणों का आमाप, आकार तथा भार
- B. जल की श्यानता तथा तापमान
- C. पृष्ठीय अतिप्रवाह की दर, पृष्ठीय क्षेत्रफल तथा प्रवाह का वेग
- D. अंतर्गम तथा निर्गम की व्यवस्था
- E. अवरोधन अवधि तथा द्रोणी की प्रभावकारी गहराई

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

1. (A), (B), (C), (D) और (E) सही हैं
2. केवल (B) और (E) सही हैं
3. (B), (C) और (D) सही हैं
4. (A), (B), (D) और (E) सही हैं

Options :

- 686340161501. 1
- 686340161502. 2
- 686340161503. 3
- 686340161504. 4

Question Number : 77 Question Id : 68634040894 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1

Arrange the following structural elements of a flexible pavement from base to top :

- A. Sub-base
- B. Sub-grade
- C. Base
- D. Surfacing

Choose the correct answer from the options given below.

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

Options :

- 686340161505. 1
- 686340161506. 2
- 686340161507. 3

Question Number : 77 Question Id : 68634040894 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0
Correct Marks : 4 Wrong Marks : 1

कसी नम्य फर्श के निम्न संरचनात्मक तत्वों को आधार से शीर्ष की तरफ व्यवस्थित करें।

- A. उप-आधार
- B. उप-श्रेणी
- C. आधार
- D. पृष्ठन

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

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

Options :

686340161505. 1
 686340161506. 2
 686340161507. 3
 686340161508. 4

Question Number : 78 Question Id : 68634040895 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0
Correct Marks : 4 Wrong Marks : 1

Which of the following are claimed as advantageous in anaerobic sludge digestion as compared to aerobic digestion?

- A. Lower BOD concentration in supernant liquor
- B. Production of a sludge with excellent dewatering capacity
- C. Greater production of methane
- D. Lesser operating cost
- E. Lesser capital cost

Choose the correct answer from the options given below.

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

Options :

- 686340161509. 1
- 686340161510. 2
- 686340161511. 3
- 686340161512. 4

Question Number : 78 Question Id : 68634040895 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1

वायवीय पाचन की तुलना में अवायवी आपंक पाचन में निम्न में से कौन लाभकार माने जाते हैं?

- A. अधिप्लवी द्रव में निम्न BOD सांद्रता
- B. उत्कृष्ट अपाचयन क्षमता वाले अपंक का उत्पादन
- C. मीथेन का उच्च उत्पादन
- D. कम संक्रियण लागत
- E. कम पूँजी लागत

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

- 1. (A), (B) और (D) सही हैं
- 2. (B), (C), (D) और (E) सही हैं
- 3. (C), (D) और (E) सही हैं
- 4. (A), (B) और (E) सही हैं

Options :

- 686340161509. 1
- 686340161510. 2
- 686340161511. 3
- 686340161512. 4

Question Number : 79 Question Id : 68634040896 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1

Capillarity is due to

- A. Surface tension
- B. Cohesion
- C. Viscosity
- D. Vapour pressure
- E. Weigh density of fluid

Choose the correct answer from the options given below.

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

Options :

- 686340161513. 1
- 686340161514. 2
- 686340161515. 3
- 686340161516. 4

Question Number : 79 Question Id : 68634040896 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1

निम्न में से किसके कारण केशिकत्व होता है?

- A. पृष्ठ तनाव
- B. संसंजन
- C. श्यानता
- D. वाष्प दाब
- E. तरल का भार घनत्व

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

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

Options :

- 686340161513. 1
- 686340161514. 2
- 686340161515. 3

Question Number : 80 Question Id : 68634040897 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0
Correct Marks : 4 Wrong Marks : 1

Given below are two statements :

Statement-I : Method of section for analysis of truss is used when the forces in a few members of a truss are to be determined.

Statement-II : If three forces act at a joint and two of them are along the same straight line then third force would be zero.

In the light of the above statements, choose the *most appropriate* answer from the options given below.

1. Both Statement-I and Statement-II are correct
2. Both Statement-I and Statement-II are incorrect
3. Statement-I is correct but Statement-II is incorrect
4. Statement-I is incorrect but Statement-II is correct

Options :

686340161517. 1
 686340161518. 2
 686340161519. 3
 686340161520. 4

Question Number : 80 Question Id : 68634040897 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0
Correct Marks : 4 Wrong Marks : 1

नीचे दो कथन दिए गए हैं :

कथन (I) : जब ट्रस के कुछ सदस्यों में बलों को निर्धारित करना होता है, तो ट्रस के विश्लेषण के लिए परिच्छेदन की विधि का उपयोग किया जाता है।

कथन (II) : यदि किसी जोड़ (बंध) पर तीन बल कार्य करते हैं तथा इनमें से दो उसी सीधी रेखा में हैं तो तीसरा बल शून्य (0) होगा।

उपरोक्त कथन के आलोक में, नीचे दिए गए विकल्पों में से **सबसे उपयुक्त** उत्तर का चयन कीजिए :

1. कथन (I) और (II) दोनों सही हैं।
2. कथन (I) और (II) दोनों गलत हैं।
3. कथन (I) सही है, लेकिन कथन (II) गलत है।
4. कथन (I) गलत है, लेकिन कथन (II) सही है।

Options :

686340161517. 1
 686340161518. 2
 686340161519. 3
 686340161520. 4

Question Number : 81 Question Id : 68634040898 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0
Correct Marks : 4 Wrong Marks : 1

Given below are two statements :

Statement-I : Improper design and location of signals may lead to violations of control systems.

Statement-II : Signals reduce certain types of accidents, notably the right angled collisions.

In the light of the above statements, choose the *most appropriate* answer from the options given below.

1. Both Statement-I and Statement-II are correct
2. Both Statement-I and Statement-II are incorrect
3. Statement-I is correct but Statement-II is incorrect
4. Statement-I is incorrect but Statement-II is correct

Options :

686340161521. 1
686340161522. 2
686340161523. 3
686340161524. 4

Question Number : 81 Question Id : 68634040898 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0
Correct Marks : 4 Wrong Marks : 1

नीचे दो कथन दिए गए हैं :

कथन (I) : सिग्नलों का अनुचित प्रारूप तथा स्थिति, नियंत्रण व्यवस्था के अपक्रमण की तरफ अग्रसर कर सकता है।

कथन (II) : सिग्नल कुछ प्रकार की दुर्घटनाओं, विशेषरूप से समकोणीय टकरावों को कम करता है।

उपरोक्त कथन के आलोक में, नीचे दिए गए विकल्पों में से **सबसे उपयुक्त** उत्तर का चयन कीजिए :

1. कथन (I) और (II) दोनों सत्य हैं।
2. कथन (I) और (II) दोनों असत्य हैं।
3. कथन (I) सत्य है, लेकिन कथन (II) असत्य है।
4. कथन (I) असत्य है, लेकिन कथन (II) सत्य है।

Options :

686340161521. 1
686340161522. 2
686340161523. 3
686340161524. 4

Question Number : 82 Question Id : 68634040899 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0
Correct Marks : 4 Wrong Marks : 1

Given below are two statements :

Statement-I : The first stage BOD is the carbonaceous demand occurring due to the organic matter oxidation during first 20 days.

Statement-II : The second stage BOD is the carbonaceous demand occurring due to the inorganic matter oxidation during first 20 days.

In the light of the above statements, choose the *most appropriate* answer from the options given below.

1. Both Statement-I and Statement-II are correct
2. Both Statement-I and Statement-II are incorrect
3. Statement-I is correct but Statement-II is incorrect
4. Statement-I is incorrect but Statement-II is correct

Options :

686340161525. 1
686340161526. 2
686340161527. 3
686340161528. 4

Question Number : 82 Question Id : 68634040899 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

नीचे दो कथन दिए गए हैं :

कथन (I) : BOD की प्रथम अवस्था प्रथम 20 दिनों के अंतर्गत जैव पदार्थों के ऑक्सीकरण के कारण होने वाली कार्बनमय आवश्यकता है।

कथन (II) : BOD की दूसरी अवस्था प्रथम 20 दिनों के अंतर्गत अजैविक पदार्थों के ऑक्सीकरण के कारण होने वाली कार्बनमय आवश्यकता है।

उपरोक्त कथन के आलोक में, नीचे दिए गए विकल्पों में से **सबसे उपयुक्त** उत्तर का चयन कीजिए :

1. कथन (I) और (II) दोनों सही हैं।
2. कथन (I) और (II) दोनों गलत हैं।
3. कथन (I) सही है, लेकिन कथन (II) गलत है।
4. कथन (I) गलत है, लेकिन कथन (II) सही है।

Options :

686340161525. 1
686340161526. 2
686340161527. 3
686340161528. 4

Question Number : 83 Question Id : 68634040900 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

Given below are two statements :

Statement-I : Activated sludge process is an example of aerobic suspended growth process.

Statement-II : Anaerobic decomposition takes place in Imhoff tank.

In the light of the above statements, choose the **correct** answer from the options given below.

1. Both Statement-I and Statement-II are true
2. Both Statement-I and Statement-II are false
3. Statement-I is true but Statement-II is false
4. Statement-I is false but Statement-II is true

Options :

686340161529. 1
686340161530. 2
686340161531. 3
686340161532. 4

Question Number : 83 Question Id : 68634040900 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1

नीचे दो कथन दिए गए हैं :

कथन (I) : सक्रियित आपंक प्रक्रिया वायवी निलंबित वृद्धि प्रक्रिया का एक उदाहरण है।

कथन (II) : अवायवी अपघटन इम्बॉफ़ टैंक में घटित होता है।

उपरोक्त कथन के आलोक में, नीचे दिए गए विकल्पों में से **सही** उत्तर का चयन कीजिए :

1. कथन (I) और (II) दोनों सही हैं।
2. कथन (I) और (II) दोनों गलत हैं।
3. कथन (I) सही है, लेकिन कथन (II) गलत है।
4. कथन (I) गलत है, लेकिन कथन (II) सही है।

Options :

686340161529. 1
686340161530. 2
686340161531. 3
686340161532. 4

Question Number : 84 Question Id : 68634040901 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1

Given below are two statements :

Statement-I : Consolidation is a gradual process of volume reduction under sustained loading.

Statement-II : Compaction refers to a rapid reduction mainly in the air voids under a loading of short duration.

In the light of the above statements, choose the *correct* answer from the options given below.

1. Both Statement-I and Statement-II are true
2. Both Statement-I and Statement-II are false
3. Statement-I is true but Statement-II is false
4. Statement-I is false but Statement-II is true

Options :

686340161533. 1
686340161534. 2
686340161535. 3
686340161536. 4

Question Number : 84 Question Id : 68634040901 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

नीचे दो कथन दिए गए हैं : एक **अभिकथन (Assertion A)** के रूप में लिखित है तो दूसरा उसके **कारण (Reason R)** के रूप में :

अभिकथन (A) : अविच्छिन्न भारण के अंतर्गत संपिंडन, आयतन ह्रास की एक क्रमिक प्रक्रिया है।

कारण (R) : अल्पावधि भारण के अंतर्गत संहनन, मुख्यतः वायुरिक्तिकाओं में होने वाला द्रुत ह्रास है।

उपरोक्त कथन के आलोक में, नीचे दिए गए विकल्पों में से **सही** उत्तर का चयन कीजिए :

1. (A) और (R) दोनों सही हैं और (R), (A) की सही व्याख्या है।
2. (A) और (R) दोनों सही हैं, लेकिन (R), (A) की सही व्याख्या नहीं है।
3. (A) सही है, लेकिन (R) सही नहीं है।
4. (A) सही नहीं है, लेकिन (R) सही है।

Options :

686340161533. 1
686340161534. 2
686340161535. 3
686340161536. 4

Question Number : 85 Question Id : 68634040902 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

Given below are two statements :

Statement-I : The inner core of the earth consists of light materials while the crust is solid and comprises of heavy metals.

Statement-II : The crust of earth consists of light materials while its inner core is solid and comprises of heavy metals.

In the light of the above statements, choose the *most appropriate* answer from the options given below.

1. Both Statement-I and Statement-II are correct
2. Both Statement-I and Statement-II are incorrect
3. Statement-I is correct but Statement-II is incorrect
4. Statement-I is incorrect but Statement-II is correct

Options :

686340161537. 1
686340161538. 2
686340161539. 3
686340161540. 4

Question Number : 85 Question Id : 68634040902 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1

नीचे दो कथन दिए गए हैं :

कथन (I) : पृथ्वी का आंतर क्रोड हल्के पदार्थों से बना है जबकि भूपटल ठोस है और भारी धातुओं से बना है।

कथन (II) : पृथ्वी का भूपटल हल्के पदार्थों से बना है जबकि आंतर क्रोड ठोस है और भारी धातुओं से बना है।
उपरोक्त कथन के आलोक में, नीचे दिए गए विकल्पों में से **सबसे उपयुक्त** उत्तर का चयन कीजिए :

1. कथन (I) और (II) दोनों सही हैं।
2. कथन (I) और (II) दोनों गलत हैं।
3. कथन (I) सही है, लेकिन कथन (II) गलत है।
4. कथन (I) गलत है, लेकिन कथन (II) सही है।

Options :

686340161537. 1
686340161538. 2
686340161539. 3
686340161540. 4

Question Number : 86 Question Id : 68634040903 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1

Given below are two statements :

Statement-I : Fluids which obey the Newton's law of viscosity are known as Newtonian fluids.

Statement-II : A fluid, which is incompressible and having no viscosity, is known as real fluid.

In the light of the above statements, choose the **correct** answer from the options given below.

1. Both Statement-I and Statement-II are true
2. Both Statement-I and Statement-II are false
3. Statement-I is true but Statement-II is false
4. Statement-I is false but Statement-II is true

Options :

686340161541. 1
686340161542. 2
686340161543. 3
686340161544. 4

Question Number : 86 Question Id : 68634040903 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

नीचे दो कथन दिए गए हैं :

कथन (I) : ऐसे तरल जिन पर न्यूटन का श्यानता का सिद्धान्त लागू होता है, उन्हें न्यूटनी तरल कहते हैं।

कथन (II) : ऐसा तरल जो असंपीड्य है और जिसकी कोई श्यानता नहीं है, इसे वास्तविक तरल कहते हैं।

उपरोक्त कथन के आलोक में, नीचे दिए गए विकल्पों में से **सही** उत्तर का चयन कीजिए :

1. कथन (I) और (II) दोनों सही हैं।
2. कथन (I) और (II) दोनों गलत हैं।
3. कथन (I) सही है, लेकिन कथन (II) गलत है।
4. कथन (I) गलत है, लेकिन कथन (II) सही है।

Options :

686340161541. 1
686340161542. 2
686340161543. 3
686340161544. 4

Question Number : 87 Question Id : 68634040904 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

Integral $\int \frac{h(x)g(x) + g(x)h(x)}{h(x) \cdot g(x)} (\log h(x) + \log g(x)) dx$ is

- A. $h(x) \cdot g(x) \cdot \log [h(x) + g(x)] + c$
- B. $[\log h(x) \cdot g(x)]^2 + c$
- C. $\left[\frac{1}{\sqrt{2}} \log h(x) + \frac{1}{\sqrt{2}} \log g(x) \right]^2 + c$
- D. $[\log h(x) + \log g(x)]^2 + c$
- E. $[h(x) + g(x)]^2 + c$

Choose the correct answer from the options given below.

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

Options :

- 686340161545. 1
- 686340161546. 2
- 686340161547. 3
- 686340161548. 4

Question Number : 87 Question Id : 68634040904 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1

समाकल $\int \frac{h(x)g(x) + g(x)h(x)}{h(x) \cdot g(x)} (\log h(x) + \log g(x)) dx$ क्या है ?

- A. $h(x) \cdot g(x) \cdot \log [h(x) + g(x)] + c$
- B. $[\log h(x) \cdot g(x)]^2 + c$
- C. $\left[\frac{1}{\sqrt{2}} \log h(x) + \frac{1}{\sqrt{2}} \log g(x) \right]^2 + c$
- D. $[\log h(x) + \log g(x)]^2 + c$
- E. $[h(x) + g(x)]^2 + c$

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

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

Options :

- 686340161545. 1
- 686340161546. 2
- 686340161547. 3
- 686340161548. 4

Question Number : 88 Question Id : 68634040905 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

- A. PERT technique is suitable for scheduling of research and development work
- B. PERT is an activity oriented technique
- C. PERT has no use of dummy activities
- D. PERT can manage uncertain activities of project
- E. PERT is an event oriented technique

Choose the correct answer from the options given below.

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

Options :

- 686340161549. 1
- 686340161550. 2
- 686340161551. 3

Question Number : 88 Question Id : 68634040905 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

- A. पर्ट (PERT) तकनीक अनुसंधान तथा विकास कार्यों की के लिए उपयुक्त है।
- B. पर्ट एक गतिविधि उन्मुख तकनीक है।
- C. पर्ट में पूर्वाभ्यास/नकली गतिविधियों का कोई उपयोग नहीं है।
- D. पर्ट द्वारा परियोजना के अनिश्चित गतिविधियों का प्रबंधन किया जा सकता है।
- E. पर्ट एक घटना/परिणाम उन्मुख तकनीक है।

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

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

Options :

- 686340161549. 1
- 686340161550. 2
- 686340161551. 3
- 686340161552. 4

Question Number : 89 Question Id : 68634040906 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

Point of contraflexure is the point at which

- A. Bending moment changes sign
- B. Beam changes curvature
- C. Beam flexes in opposite direction
- D. Bending moment is zero
- E. Bending moment is maximum

Choose the correct answer from the options given below.

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

Options :

686340161553. 1
686340161554. 2
686340161555. 3
686340161556. 4

**Question Number : 89 Question Id : 68634040906 Question Type : MCQ Option Shuffling : No Is Question Mandatory :
No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0
Correct Marks : 4 Wrong Marks : 1**

प्रति आनमन बिंदु एक ऐसा बिंदु है जिस पर _____

- A. बंकन आघूर्ण चिह्न बदलता है।
- B. बीम वक्रता बदलता है।
- C. बीम विरोधी/उलटी दिशा में झुकता है।
- D. बंकन आघूर्ण शून्य है।
- E. बंकन आघूर्ण अधिकतम है।

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

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

Options :

686340161553. 1
686340161554. 2
686340161555. 3
686340161556. 4

**Question Number : 90 Question Id : 68634040907 Question Type : MCQ Option Shuffling : No Is Question Mandatory :
No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0
Correct Marks : 4 Wrong Marks : 1**

The block shear resistance of a tension member at the connection is given by the sum of

- A. fracture strength of shear surface and yield strength of tension surface
- B. fracture strength and yield strength of stronger plane
- C. fracture strength of tension plane and the yield strength of the shear plane
- D. twice the fracture strength, if both are equal
- E. twice the yield strength, if shear strength is lesser

Choose the most appropriate answer from the options given below.

- 1. A only
- 2. Lesser of A and B
- 3. Minimum of A and C
- 4. Minimum of D and E

Options :

- 686340161557. 1
- 686340161558. 2
- 686340161559. 3
- 686340161560. 4

Question Number : 90 Question Id : 68634040907 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

संयोजन पर किसी तनाव सदस्य का ब्लॉक अपरूपण प्रतिरोध निम्न में से किसके योग द्वारा दर्शाया जाता है?

- A. अपरूपित पृष्ठ का विभंग बल तथा तनाव पृष्ठ का विचलन बल
- B. अधिक शक्ति वाले तल का विभंग बल तथा विचलन बल
- C. तनाव तल का विभंग बल तथा अपरूपित तल का विचलन बल
- D. यदि दोनों समान हैं, तो विभंग बल का दोगुना
- E. यदि अपरूपित बल कम है, तो विचलन बल का दोगुना

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

- 1. केवल (A)
- 2. (A) तथा (B) में कम
- 3. (A) तथा (C) में न्यूनतम
- 4. (D) तथा (E) में न्यूनतम

Options :

- 686340161557. 1
- 686340161558. 2
- 686340161559. 3

Question Number : 91 Question Id : 68634040908 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1

The following statements are given on plane table survey. Choose the correct statements :

- A. Plane table survey is less costly than theodolite survey
- B. Great skill is required in plane table survey
- C. Plane table survey is advantageous in magnetic areas, where compass survey is not reliable
- D. Plane table survey gives very accurate results
- E. It is very easy to carry accessories which are not likely to be lost easily

Choose the correct answer from the options given below.

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

Options :

- 686340161561. 1
- 686340161562. 2
- 686340161563. 3
- 686340161564. 4

Question Number : 91 Question Id : 68634040908 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1

प्लेन टेबल सर्वेक्षण के विषय में निम्न कथन दिए गए हैं। सही कथनों का चयन करें।

- A. थियोडोलाइट सर्वेक्षण की तुलना में प्लेन टेबल सर्वेक्षण कम खर्च वाला है।
- B. प्लेन टेबल सर्वेक्षण के लिए अत्यधिक कुशलता की आवश्यकता होती है।
- C. प्लेन टेबल सर्वेक्षण चुम्बकीय क्षेत्रों में लाभकारी होता है जबकि दिक्सूचक सर्वेक्षण वहाँ विश्वसनीय नहीं होता।
- D. प्लेन टेबल सर्वेक्षण बहुत सटीक परिणाम देता है।
- E. ऐसे उपसाधनों को ले जाना सुविधाजनक होता है जिनकी आसानी से (खो जाना) हानि नहीं हो पाती।

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

- 1. केवल (C) और (E)
- 2. केवल (A) और (C)
- 3. केवल (D) और (A)
- 4. केवल (A) और (D)

Options :

- 686340161561. 1
- 686340161562. 2
- 686340161563. 3
- 686340161564. 4

Question Number : 92 Question Id : 68634040909 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0
Correct Marks : 4 Wrong Marks : 1

Following scale of the map is not affected due to shrinking of map :

- A. Engineer's scale
- B. Graphical scale
- C. Representative fraction
- D. Plain scale

Choose the most appropriate answer from the options given below.

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

Options :

- 686340161565. 1
- 686340161566. 2
- 686340161567. 3

Question Number : 92 Question Id : 68634040909 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0
Correct Marks : 4 Wrong Marks : 1

निम्नलिखित में से कौन सा मात्रक, मानचित्र के कुंचन से प्रभावित नहीं होता ?

- A. इंजीनियरी मात्रक
- B. आलेखी मात्रक
- C. निरूपक भिन्न
- D. साधारण मापनी

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

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

Options :

- 686340161565. 1
- 686340161566. 2
- 686340161567. 3
- 686340161568. 4

Question Number : 93 Question Id : 68634040910 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0
Correct Marks : 4 Wrong Marks : 1

Which of the following measures are relevantly considered for earthquake loading and lateral stability of tall buildings?

- A. Minimizing gravity loads
- B. Adding masses at floor levels
- C. Ensuring ductility at the locations of maximum moments
- D. Providing shear walls

Choose the most appropriate answer from the options given below.

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

Options :

686340161569. 1
686340161570. 2
686340161571. 3
686340161572. 4

Question Number : 93 Question Id : 68634040910 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1

नम्न में से कौन से उपायों को ऊँची इमारतों के भूकंप भारण व पार्श्व स्थायित्व के लिए महत्वपूर्ण माना जाता है।

- A. गुरुत्वीय भारों को न्यूनतम बनाना
- B. तल-स्तरों पर संहति बढ़ाना
- C. अधिकतम आघूर्णों वाले स्थानों पर तन्यता को सुनिश्चित करना
- D. अपरुपित दीवारों की व्यवस्था करना

नीचे दिए गए विकल्पों में से सबसे उपयुक्त उत्तर का चयन कीजिए :

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

Options :

686340161569. 1
686340161570. 2
686340161571. 3
686340161572. 4

Question Number : 94 Question Id : 68634040911 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1

Match List I with List II

LIST I		LIST II	
A.	Well graded gravel	I.	GP
B.	Poorly graded gravel	II.	SW
C.	Well graded sands	III.	GW
D.	Poorly graded sands	IV.	SP

Choose the correct answer from the options given below:

1. (A)–(IV); (B)–(II); (C)–(I); (D)–(III)
2. (A)–(I); (B)–(II); (C)–(III); (D)–(IV)
3. (A)–(III); (B)–(IV); (C)–(I); (D)–(II)
4. (A)–(III); (B)–(I); (C)–(II); (D)–(IV)

Options :

686340161573. 1
686340161574. 2
686340161575. 3
686340161576. 4

Question Number : 94 Question Id : 68634040911 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1

सूची I के साथ सूची II का मिलान कीजिए।

सूची I		सूची II	
A.	पर्याप्त रूप से प्रवणित बजरी	I.	GP
B.	अपर्याप्त रूप से प्रवणित बजरी	II.	SW
C.	पर्याप्त रूप से प्रवणित बालू	III.	GW
D.	अपर्याप्त रूप से प्रवणित बालू	IV.	SP

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

1. (A)–(IV), (B)–(II), (C)–(I), (D)–(III)
2. (A)–(I), (B)–(II), (C)–(III), (D)–(IV)
3. (A)–(III), (B)–(IV), (C)–(I), (D)–(II)
4. (A)–(III), (B)–(I), (C)–(II), (D)–(IV)

Options :

686340161573. 1
686340161574. 2
686340161575. 3
686340161576. 4

Question Number : 95 Question Id : 68634040912 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0
Correct Marks : 4 Wrong Marks : 1

Match List I with List II

LIST I		LIST II	
A.	Anemometer	I.	Humidity
B.	Rain simulator	II.	Evapotranspiration
C.	Lysimeter	III.	Infiltration
D.	Hygrometer	IV.	Wind speed

Choose the correct answer from the options given below:

1. (A)–(IV); (B)–(III); (C)–(I); (D)–(II)
2. (A)–(IV); (B)–(III); (C)–(II); (D)–(I)
3. (A)–(III); (B)–(IV); (C)–(II); (D)–(I)
4. (A)–(IV); (B)–(I); (C)–(II); (D)–(III)

Options :

686340161577. 1
686340161578. 2
686340161579. 3
686340161580. 4

Question Number : 95 Question Id : 68634040912 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0
Correct Marks : 4 Wrong Marks : 1

सूची I के साथ सूची II का मिलान कीजिए।

सूची I		सूची II	
A.	पवनवेगमापी	I.	आर्द्रता
B.	वर्षा अनुरूपण	II.	वाष्पन-वाष्पोत्सर्जन
C.	लिसजलमापी/लाइसीमीटर	III.	अंतः स्यदन
D.	आर्द्रतामापी	IV.	वायु की गति

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

1. (A)–(IV); (B)–(III); (C)–(I); (D)–(II)
2. (A)–(IV); (B)–(III); (C)–(II); (D)–(I)
3. (A)–(III); (B)–(IV); (C)–(II); (D)–(I)
4. (A)–(IV); (B)–(I); (C)–(II); (D)–(III)

Options :

686340161577. 1
686340161578. 2

686340161579. 3

686340161580. 4

Question Number : 96 Question Id : 68634040913 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1

Match List I with List II

LIST I (Type of jump)		LIST II (F_1 = Froude number of supercritical flow)	
A.	Undular jump	I.	$4.5 < F_1 \leq 9.0$
B.	Weak jump	II.	$2.5 < F_1 \leq 4.5$
C.	Oscillating jump	III.	$1.7 < F_1 \leq 2.5$
D.	Steady jump	IV.	$1.0 < F_1 \leq 1.7$

Choose the correct answer from the options given below:

1. (A)–(II); (B)–(I); (C)–(III); (D)–(IV)
2. (A)–(IV); (B)–(III); (C)–(II); (D)–(I)
3. (A)–(I); (B)–(II); (C)–(III); (D)–(IV)
4. (A)–(III); (B)–(I); (C)–(II); (D)–(IV)

Options :

686340161581. 1

686340161582. 2

686340161583. 3

686340161584. 4

Question Number : 96 Question Id : 68634040913 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1

सूची I के साथ सूची II का मिलान कीजिए।

सूची I (प्लुति के प्रकार)		सूची II (F_1 = अतिक्रांतिक प्रवाह की फ्राऊड संख्या)	
A.	तरंगमय प्लुति	I.	$4.5 < F_1 \leq 9.0$
B.	क्षीण प्लुति	II.	$2.5 < F_1 \leq 4.5$
C.	दोलायमान प्लुति	III.	$1.7 < F_1 \leq 2.5$
D.	अपरिवर्ती प्लुति	IV.	$1.0 < F_1 \leq 1.7$

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

1. (A)–(II); (B)–(I); (C)–(III); (D)–(IV)
2. (A)–(IV); (B)–(III); (C)–(II); (D)–(I)
3. (A)–(I); (B)–(II); (C)–(III); (D)–(IV)
4. (A)–(III); (B)–(I); (C)–(II); (D)–(IV)

Options :

686340161581. 1
686340161582. 2
686340161583. 3
686340161584. 4

Question Number : 97 Question Id : 68634040914 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0
Correct Marks : 4 Wrong Marks : 1

Match List I with List II

LIST I		LIST II	
A.	Dust	I.	(0.5 to 1) μm
B.	Fumes	II.	(1 to 100) μm
C.	Smoke	III.	(1 to 1000) μm
D.	Fly ash	IV.	(0 to 0.3) μm

Choose the correct answer from the options given below:

1. (A)–(III); (B)–(I); (C)–(II); (D)–(IV)
2. (A)–(I); (B)–(III); (C)–(IV); (D)–(II)
3. (A)–(II); (B)–(IV); (C)–(I); (D)–(III)
4. (A)–(IV); (B)–(II); (C)–(III); (D)–(I)

Options :

686340161585. 1
686340161586. 2

686340161587. 3

686340161588. 4

Question Number : 97 Question Id : 68634040914 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1

सूची I के साथ सूची II का मिलान कीजिए

सूची I		सूची II	
A.	धूल	I.	(0.5 to 1) μm
B.	धूम	II.	(1 to 100) μm
C.	धूँआ	III.	(1 to 1000) μm
D.	स्लाई ऐश	IV.	(0 to 0.3) μm

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

1. (A)–(III); (B)–(I); (C)–(II); (D)–(IV)
2. (A)–(I); (B)–(III); (C)–(IV); (D)–(II)
3. (A)–(II); (B)–(IV); (C)–(I); (D)–(III)
4. (A)–(IV); (B)–(II); (C)–(III); (D)–(I)

Options :

686340161585. 1

686340161586. 2

686340161587. 3

686340161588. 4

Question Number : 98 Question Id : 68634040915 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1

Match List I with List II

LIST I		LIST II	
A.	Incineration	I.	Requires pre-sorting, grinding and turning
B.	Sanitary landfill	II.	Limited to special wastes and selected materials
C.	Composting	III.	High operational and main-tenance cost
D.	Salvage by sorting	IV.	Tractor

Choose the correct answer from the options given below:

1. (A)–(II); (B)–(IV); (C)–(I); (D)–(III)
2. (A)–(I); (B)–(III); (C)–(II); (D)–(IV)
3. (A)–(III); (B)–(IV); (C)–(I); (D)–(II)
4. (A)–(IV); (B)–(III); (C)–(I); (D)–(II)

Options :

686340161589. 1
686340161590. 2
686340161591. 3
686340161592. 4

Question Number : 98 Question Id : 68634040915 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

सूची I के साथ सूची II का मिलान कीजिए

सूची I		सूची II	
A.	भस्मीकरण	I.	पूर्व-घँटाई, पेपण तथा वर्तन की आवश्यकता है।
B.	स्वच्छता भूमण	II.	विशेष अपशिष्टों तथा कुछ पदार्थों तक सीमित
C.	कम्पोस्टिंग	III.	सक्रियण तथा रख-रखाव की उच्च लागत
D.	बिटाई द्वारा निस्तारण	IV.	ट्रेक्टर

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

1. (A)–(II); (B)–(IV); (C)–(I); (D)–(III)
2. (A)–(I); (B)–(III); (C)–(II); (D)–(IV)
3. (A)–(III); (B)–(IV); (C)–(I); (D)–(II)
4. (A)–(IV); (B)–(III); (C)–(I); (D)–(II)

Options :

686340161589. 1
686340161590. 2

686340161591. 3

686340161592. 4

Question Number : 99 Question Id : 68634040916 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1

Match List I with List II

LIST I (Exposure condition)		LIST II (Minimum grade of concrete)	
A.	Severe	I.	M-25
B.	Extreme	II.	M-20
C.	Mild	III.	M-30
D.	Moderate	IV.	M-40

Choose the correct answer from the options given below:

1. (A)–(III); (B)–(IV); (C)–(II); (D)–(I)
2. (A)–(I); (B)–(II); (C)–(III); (D)–(IV)
3. (A)–(IV); (B)–(III); (C)–(I); (D)–(II)
4. (A)–(II); (B)–(IV); (C)–(I); (D)–(III)

Options :

686340161593. 1

686340161594. 2

686340161595. 3

686340161596. 4

Question Number : 99 Question Id : 68634040916 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1

सूची I के साथ सूची II का मिलान कीजिए

सूची I		सूची II	
A.	प्रचंड	I.	M-25
B.	आत्यंतिक	II.	M-20
C.	कोमल	III.	M-30
D.	मध्यम	IV.	M-40

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

1. (A)–(III); (B)–(IV); (C)–(II); (D)–(I)
2. (A)–(I); (B)–(II); (C)–(III); (D)–(IV)
3. (A)–(IV); (B)–(III); (C)–(I); (D)–(II)
4. (A)–(II); (B)–(IV); (C)–(I); (D)–(III)

Options :

686340161593. 1
686340161594. 2
686340161595. 3
686340161596. 4

Question Number : 100 Question Id : 68634040917 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0
Correct Marks : 4 Wrong Marks : 1

Match List I with List II

LIST I		LIST II	
A.	Fillet weld	I.	
B.	Square groove weld	II.	
C.	Single V groove weld	III.	
D.	Double V groove weld	IV.	

Choose the correct answer from the options given below:

1. (A)–(III); (B)–(I); (C)–(II); (D)–(IV)
2. (A)–(II); (B)–(IV); (C)–(III); (D)–(I)
3. (A)–(II); (B)–(I); (C)–(IV); (D)–(III)
4. (A)–(IV); (B)–(III); (C)–(I); (D)–(II)

Options :

686340161597. 1
 686340161598. 2
 686340161599. 3
 686340161600. 4

Question Number : 100 Question Id : 68634040917 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0
Correct Marks : 4 Wrong Marks : 1

सूची I के साथ सूची II का मिलान कीजिए

सूची I		सूची II	
A.	फिलेट वेल्ड	I.	
B.	बर्ग खाँचेदार वेल्ड	II.	
C.	एकल V खाँचेदार वेल्ड	III.	
D.	द्वि V खाँचेदार वेल्ड	IV.	

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

1. (A)–(III); (B)–(I); (C)–(II); (D)–(IV)
2. (A)–(II); (B)–(IV); (C)–(III); (D)–(I)
3. (A)–(II); (B)–(I); (C)–(IV); (D)–(III)
4. (A)–(IV); (B)–(III); (C)–(I); (D)–(II)

Options :

686340161597. 1
 686340161598. 2
 686340161599. 3
 686340161600. 4