

National Testing Agency

Question Paper Name :	Civil Structural Transport Engg Eng 05th June 2023 Shift 3
Subject Name :	Civil Structural Transport Engg Eng
Creation Date :	2023-06-06 08:06:07
Duration :	120
Total Marks :	400
Display Marks:	Yes

Civil Structural Transport Engg

Group Number :	1
Group Id :	68634062
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 :	686340123
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 :	686340190
Question Shuffling Allowed :	No
Is Section Default? :	null

Question Id : 6863406168 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

Captain Vs Generals

Pak army doesn't want to take over govt but it doesn't know how post-Imran-arrest protest will pan out

Following Imran Khan's dramatic arrest on Tuesday, Pakistan's 'polycrisis' has not only deepened but also morphed into a systemic question for that country. There can be no doubting that the manner of Khan's arrest - it is the paramilitary Rangers that picked him up from the premises of the Islamabad high court was meant to send out a clear message to the former Pakistani PM: that he had crossed a red line by repeatedly pointing fingers at Pakistan's military-security establishment. But Khan has emerged as the most popular Pakistani leader in over a decade. And his refusal to play by the army's hybrid regime playbook has brought Pakistan to an inflection point.

As protests by Khan's PTI supporters spread, the hybrid regime is facing its sternest test. By all accounts the Shehbaz Sharif government wants to delay national polls scheduled for later this year. It hopes this will take the wind out of Khan's political sails as cases pile up against him-the latest being the indictment in the Toshakhana case. But if the protests sustain, army chief Asim Munir would be forced to make a tough choice either directly step in and take control or put at risk the army's pre-eminent position in Pakistani society. The generals have played the role of Pakistan's stabiliser for decades, notwithstanding messy outcomes.

However, another military takeover would be tricky today's geopolitical climate. Pakistan's salience in international politics has rapidly declined over the last decade, particularly after the US withdrawal from Afghanistan. True, China is still a benefactor through its CPEC projects. But that closely tracks Beijing's strategic and mercantilist interests. Therefore, without US backing, a Pakistan under generals would likely be shut out from IMF bailouts its dysfunctional economy needs desperately - forex reserves are still paltry, inflation is climbing and there's widespread general hardship.

Thus, General Munir will try his best to sustain the hybrid regime. He may even choose to allow the protests to continue till calls for more robust intervention arise. But popular movements are unpredictable. While we are not there yet, India should watch out for cracks in the Pakistani military establishment. Pakistan in utter chaos is not good news for India.

Sub questions

Question Number : 1 Question Id : 6863406169 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

Call before a court to answer a criminal charge is

1. Order
2. Allegation
3. Arraignment
4. Arrack

Options :

- 68634024401. 1
- 68634024402. 2
- 68634024403. 3
- 68634024404. 4

Question Number : 2 Question Id : 6863406170 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

Indictment means

1. A written paper that officially accuses of a crime
2. A poem on love
3. A story based on true facts
4. A written letter stating apology

Options :

- 68634024405. 1
- 68634024406. 2
- 68634024407. 3
- 68634024408. 4

Question Number : 3 Question Id : 6863406171 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

Salience means

1. Silence
2. Prominence
3. Parts which are hidden
4. Keeping quite in a public place

Options :

- 68634024409. 1
- 68634024410. 2
- 68634024411. 3
- 68634024412. 4

Question Number : 4 Question Id : 6863406172 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

Pakistan's prominence in world politics declined gradually. The facts which are true regarding this are:

- A. Over the last decade.
- B. After the US withdrawal from Afghanistan.
- C. Pakistan was never prominent in world politics.
- D. China is a benefactor of this declination stated above.

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

Options :

- 68634024413. 1
- 68634024414. 2
- 68634024415. 3
- 68634024416. 4

Question Number : 5 Question Id : 6863406173 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

Asim Munir would be forced to make:

- A. A tough choice.
- B. choice of directly stepping in and taking control.
- C. choice to put at risk the army's pre-eminent position in pakistani society.
- D. To stop china from taking advantage in CPEC projects.

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

Options :

- 68634024417. 1
- 68634024418. 2
- 68634024419. 3
- 68634024420. 4

Question Id : 6863406168 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

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As protests by Khan's PTI supporters spread, the hybrid regime is facing its sternest test. By all accounts the Shehbaz Sharif government wants to delay national polls scheduled for later this year. It hopes this will take the wind out of Khan's political sails as cases pile up against him-the latest being the indictment in the Toshakhana case. But if the protests sustain, army chief Asim Munir would be forced to make a tough choice either directly step in and take control or put at risk the army's pre-eminent position in Pakistani society. The generals have played the role of Pakistan's stabiliser for decades, notwithstanding messy outcomes.

However, another military takeover would be tricky today's geopolitical climate. Pakistan's salience in international politics has rapidly declined over the last decade, particularly after the US withdrawal from Afghanistan. True, China is still a benefactor through its CPEC projects. But that closely tracks Beijing's strategic and mercantilist interests. Therefore, without US backing, a Pakistan under generals would likely be shut out from IMF bailouts its dysfunctional economy needs desperately - forex reserves are still paltry, inflation is climbing and there's widespread general hardship.

Thus, General Munir will try his best to sustain the hybrid regime. He may even choose to allow the protests to continue till calls for more robust intervention arise. But popular movements are unpredictable. While we are not there yet, India should watch out for cracks in the Pakistani military establishment. Pakistan in utter chaos is not good news for India.

Sub questions

Question Number : 1 Question Id : 6863406169 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

Call before a court to answer a criminal charge is

1. Order
2. Allegation
3. Arraignment
4. Arrack

Options :

68634024401. 1

68634024402. 2

68634024403. 3

68634024404. 4

Question Number : 2 Question Id : 6863406170 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

Indictment means

1. A written paper that officially accuses of a crime
2. A poem on love
3. A story based on true facts
4. A written letter stating apology

Options :

- 68634024405. 1
- 68634024406. 2
- 68634024407. 3
- 68634024408. 4

Question Number : 3 Question Id : 6863406171 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

Saliency means

1. Silence
2. Prominence
3. Parts which are hidden
4. Keeping quiet in a public place

Options :

- 68634024409. 1
- 68634024410. 2
- 68634024411. 3
- 68634024412. 4

Question Number : 4 Question Id : 6863406172 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

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- D. China is a benefactor of this declination stated above.

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

Options :

- 68634024413. 1
- 68634024414. 2
- 68634024415. 3
- 68634024416. 4

Question Number : 5 Question Id : 6863406173 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

Asim Munir would be forced to make:

- A. A tough choice.
- B. choice of directly stepping in and taking control.
- C. choice to put at risk the army's pre-eminent position in pakistani society.
- D. To stop china from taking advantage in CPEC projects.

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

Options :

- 68634024417. 1
- 68634024418. 2
- 68634024419. 3
- 68634024420. 4

Sub-Section Number :

2

Sub-Section Id :

686340191

Question Shuffling Allowed :

Yes

Is Section Default? :

null

Question Number : 6 Question Id : 6863406174 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

Right-wingers believe that ceasefire is no solution to Kashmir problem . We must have the will to _____

1. Kiss of death
2. Win laurels
3. cut the Gordian knot
4. jump the gun

Options :

68634024421. 1
68634024422. 2
68634024423. 3
68634024424. 4

Question Number : 6 Question Id : 6863406174 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

Right-wingers believe that ceasefire is no solution to Kashmir problem . We must have the will to _____

1. Kiss of death
2. Win laurels
3. cut the Gordian knot
4. jump the gun

Options :

68634024421. 1
68634024422. 2
68634024423. 3
68634024424. 4

Question Number : 7 Question Id : 6863406175 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 appropriate one word substitute for:

A person who shows selfless concern for the well-being and happiness of others

1. Parsimonious
2. Altruist
3. Maverick
4. supercilious

Options :

- 68634024425. 1
- 68634024426. 2
- 68634024427. 3
- 68634024428. 4

Question Number : 7 Question Id : 6863406175 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 appropriate one word substitute for:

A person who shows selfless concern for the well-being and happiness of others

1. Parsimonious
2. Altruist
3. Maverick
4. supercilious

Options :

- 68634024425. 1
- 68634024426. 2
- 68634024427. 3
- 68634024428. 4

Question Number : 8 Question Id : 6863406176 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

My great uncle's gift of several lakh rupees was enough to AMELIORATE my financial condition. Which of the following words is opposite in meaning to the word in capital letters

1. PRECIPITATE
2. SEGREGATE
3. AGGRAVATE
4. SURPASS

Options :

- 68634024429. 1
- 68634024430. 2
- 68634024431. 3
- 68634024432. 4

Question Number : 8 Question Id : 6863406176 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

My great uncle's gift of several lakh rupees was enough to AMELIORATE my financial condition. Which of the following words is opposite in meaning to the word in capital letters

1. PRECIPITATE
2. SEGREGATE
3. AGGRAVATE
4. SURPASS

Options :

- 68634024429. 1
- 68634024430. 2
- 68634024431. 3
- 68634024432. 4

Question Number : 9 Question Id : 6863406177 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 grammatically correct sentence:

1. The reasons only people indulge in gossip or shun it is as individual as they are
2. The reason only people indulge in gossip or shun it are as individuals as they are
3. The reasons only people indulge in gossip or shun it are as individual as they are
4. The reasons only people indulged in gossip or shun it are as individual as they are

Options :

- 68634024433. 1
- 68634024434. 2
- 68634024435. 3
- 68634024436. 4

Question Number : 9 Question Id : 6863406177 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 grammatically correct sentence:

1. The reasons only people indulge in gossip or shun it is as individual as they are
2. The reason only people indulge in gossip or shun it are as individuals as they are
3. The reasons only people indulge in gossip or shun it are as individual as they are
4. The reasons only people indulged in gossip or shun it are as individual as they are

Options :

- 68634024433. 1
- 68634024434. 2
- 68634024435. 3
- 68634024436. 4

Question Number : 10 Question Id : 6863406178 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 correctly spelt word from the given options

1. camouflage
2. camoflage
3. camooflage
4. cameoflage

Options :

- 68634024437. 1
- 68634024438. 2

68634024439. 3

68634024440. 4

Question Number : 10 Question Id : 6863406178 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 correctly spelt word from the given options

1. camouflage

2. camoflage

3. camooflage

4. cameoflage

Options :

68634024437. 1

68634024438. 2

68634024439. 3

68634024440. 4

Question Number : 11 Question Id : 6863406179 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 $a:b = 3:5$, then $(-a^2+b^2):(a^2+b^2)$ is:

1. 2:5

2. 1:4

3. 8:17

4. 4:9

Options :

68634024441. 1

68634024442. 2

68634024443. 3

68634024444. 4

Question Number : 11 Question Id : 6863406179 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 $a:b = 3:5$, then $(-a^2+b^2):(a^2+b^2)$ is:

1. 2:5
2. 1:4
3. 8:17
4. 4:9

Options :

68634024441. 1
68634024442. 2
68634024443. 3
68634024444. 4

Question Number : 12 Question Id : 6863406180 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 simple interest on a certain sum of money for $2\frac{1}{2}$ years at 12% per annum is RS.40 less than the simple interest on the same sum for $3\frac{1}{2}$ years at 10% per annum. Find the sum

1. Rs 800
2. Rs 1,600
3. Rs 1,200
4. Rs 1,000

Options :

68634024445. 1
68634024446. 2
68634024447. 3
68634024448. 4

Question Number : 12 Question Id : 6863406180 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 simple interest on a certain sum of money for $2\frac{1}{2}$ years at 12% per annum is RS.40 less than the simple interest on the same sum for $3\frac{1}{2}$ years at 10% per annum. Find the sum

1. Rs 800
2. Rs 1,600
3. Rs 1,200
4. Rs 1,000

Options :

68634024445. 1
68634024446. 2
68634024447. 3
68634024448. 4

Question Number : 13 Question Id : 6863406181 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

Instead of walking along two adjacent sides of a rectangular field, a boy took a short-cut along the diagonal of the field and saved a distance equal to half of the longer side. Find the ratio of the length of the shorter side to that of the longer side of the field.

1. 4:13
2. 3:4
3. 5:14
4. 4:5

Options :

68634024449. 1
68634024450. 2
68634024451. 3
68634024452. 4

Question Number : 13 Question Id : 6863406181 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

Instead of walking along two adjacent sides of a rectangular field, a boy took a short-cut along the diagonal of the field and saved a distance equal to half of the longer side. Find the ratio of the length of the shorter side to that of the longer side of the field.

1. 4:13
2. 3:4
3. 5:14
4. 4:5

Options :

68634024449. 1
68634024450. 2
68634024451. 3
68634024452. 4

Question Number : 14 Question Id : 6863406182 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

By selling an electric iron for ₹700, a shopkeeper incurred a loss of 30%. At what price should he have sold the electric iron to gain 40%?

1. ₹ 1280
2. ₹ 1400
3. ₹ 1190
4. ₹ 1080

Options :

68634024453. 1
68634024454. 2
68634024455. 3
68634024456. 4

Question Number : 14 Question Id : 6863406182 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

By selling an electric iron for ₹700, a shopkeeper incurred a loss of 30%. At what price should he have sold the electric iron to gain 40%?

1. ₹ 1280
2. ₹ 1400
3. ₹ 1190
4. ₹ 1080

Options :

- 68634024453. 1
- 68634024454. 2
- 68634024455. 3
- 68634024456. 4

Question Number : 15 Question Id : 6863406183 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 water tank can be filled by two pipes P and Q in 60 minutes and 30 minutes respectively. How many minutes will it take to fill the empty tank if pipes P and Q are opened for first half of the time, after which only pipe Q is opened for next half of the time?

- 1. 14
- 2. 25
- 3. 35
- 4. 24

Options :

- 68634024457. 1
- 68634024458. 2
- 68634024459. 3
- 68634024460. 4

Question Number : 15 Question Id : 6863406183 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 water tank can be filled by two pipes P and Q in 60 minutes and 30 minutes respectively. How many minutes will it take to fill the empty tank if pipes P and Q are opened for first half of the time, after which only pipe Q is opened for next half of the time?

- 1. 14
- 2. 25
- 3. 35
- 4. 24

Options :

- 68634024457. 1
- 68634024458. 2
- 68634024459. 3
- 68634024460. 4

Question Number : 16 Question Id : 6863406184 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 AMAN equals 79, then HAPPY=?

1. 49
2. 56
3. 59
4. 69

Options :

- 68634024461. 1
- 68634024462. 2
- 68634024463. 3
- 68634024464. 4

Question Number : 16 Question Id : 6863406184 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 AMAN equals 79, then HAPPY=?

1. 49
2. 56
3. 59
4. 69

Options :

- 68634024461. 1
- 68634024462. 2
- 68634024463. 3
- 68634024464. 4

Question Number : 17 Question Id : 6863406185 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

Answer the question by using the below mentioned statement and conclusions.

Statement:- All teachers are student

Some students are girls

Conclusions:- I. All teachers are girls.

II. Some girls are teachers.

III. Some girls are student.

1. only I follows
2. only I,II and III follows
3. only III follows
4. only II and III follows

Options :

68634024465. 1

68634024466. 2

68634024467. 3

68634024468. 4

Question Number : 17 Question Id : 6863406185 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

Answer the question by using the below mentioned statement and conclusions.

Statement:- All teachers are student

Some students are girls

Conclusions:- I. All teachers are girls.

II. Some girls are teachers.

III. Some girls are student.

1. only I follows
2. only I,II and III follows
3. only III follows
4. only II and III follows

Options :

68634024465. 1

68634024466. 2

68634024467. 3

68634024468. 4

**Question Number : 18 Question Id : 6863406186 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 alternative that will complete the pattern 0,1,1,2,3,5,8,13,2

1. 22
2. 21
3. 20
4. 19

Options :

68634024469. 1
68634024470. 2
68634024471. 3
68634024472. 4

**Question Number : 18 Question Id : 6863406186 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 alternative that will complete the pattern 0,1,1,2,3,5,8,13,2

1. 22
2. 21
3. 20
4. 19

Options :

68634024469. 1
68634024470. 2
68634024471. 3
68634024472. 4

**Question Number : 19 Question Id : 6863406187 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**

Manoj is taller than Sam but shorter than Rakesh. Rakesh is taller than Rohit but shorter than Govind. If Sam is taller than Rohit, then who is the shortest among all?

1. Govind
2. Rohit
3. Sam
4. Rakesh

Options :

- 68634024473. 1
- 68634024474. 2
- 68634024475. 3
- 68634024476. 4

Question Number : 19 Question Id : 6863406187 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

Manoj is taller than Sam but shorter than Rakesh. Rakesh is taller than Rohit but shorter than Govind. If Sam is taller than Rohit, then who is the shortest among all?

1. Govind
2. Rohit
3. Sam
4. Rakesh

Options :

- 68634024473. 1
- 68634024474. 2
- 68634024475. 3
- 68634024476. 4

Question Number : 20 Question Id : 6863406188 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

Introducing a man to her husband, a woman said, "His sister's father is the only son of my grandfather". How is the woman related to this man?

1. Aunt
2. Mother
3. Grandmother
4. Sister

Options :

68634024477. 1
68634024478. 2
68634024479. 3
68634024480. 4

Question Number : 20 Question Id : 6863406188 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

Introducing a man to her husband, a woman said, "His sister's father is the only son of my grandfather". How is the woman related to this man?

1. Aunt
2. Mother
3. Grandmother
4. Sister

Options :

68634024477. 1
68634024478. 2
68634024479. 3
68634024480. 4

Question Number : 21 Question Id : 6863406189 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

'Chor Minar' in the Hauzkhwas of Delhi was constructed by _____

1. Alauddin Khilji
2. Aurangzeb
3. Firoz shah Tughlaq
4. Akbar

Options :

68634024481. 1
68634024482. 2
68634024483. 3
68634024484. 4

Question Number : 21 Question Id : 6863406189 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

'Chor Minar' in the Hauzkhas of Delhi was constructed by _____

1. Alauddin Khilji
2. Aurangzeb
3. Firoz shah Tughlaq
4. Akbar

Options :

68634024481. 1
68634024482. 2
68634024483. 3
68634024484. 4

Question Number : 22 Question Id : 6863406190 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.	Hunter's Commission	I.	1948
B.	Wardha scheme	II.	1904
C.	University Act	III.	1937
D.	Radhakrishna commission	IV.	1882

Choose the most appropriate answer from the options given below:

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

Options :

68634024485. 1
68634024486. 2
68634024487. 3
68634024488. 4

Question Number : 22 Question Id : 6863406190 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.	Hunter's Commission	I.	1948
B.	Wardha scheme	II.	1904
C.	University Act	III.	1937
D.	Radhakrishna commission	IV.	1882

Choose the most appropriate answer from the options given below:

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

Options :

- 68634024485. 1
- 68634024486. 2
- 68634024487. 3
- 68634024488. 4

Question Number : 23 Question Id : 6863406191 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

'Jhuming' is a type of _____

1. Plantation agriculture
2. Extensive farming
3. Mixed farming
4. Shifting agriculture

Options :

- 68634024489. 1
- 68634024490. 2
- 68634024491. 3
- 68634024492. 4

Question Number : 23 Question Id : 6863406191 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

'Jhuming' is a type of _____

1. Plantation agriculture
2. Extensive farming
3. Mixed farming
4. Shifting agriculture

Options :

- 68634024489. 1
- 68634024490. 2
- 68634024491. 3
- 68634024492. 4

Question Number : 24 Question Id : 6863406192 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. The speed of sound is maximum in gases and minimum in solids.
- B. The speed of sound remains unchanged by increase or decrease of pressure.
- C. The speed of sound increases with increase of temperature of the medium.
- D. The speed of sound is less in humid air than in dry air.

Choose the correct answer from the options given below:

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

Options :

- 68634024493. 1
- 68634024494. 2
- 68634024495. 3
- 68634024496. 4

Question Number : 24 Question Id : 6863406192 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. The speed of sound is maximum in gases and minimum in solids.
- B. The speed of sound remains unchanged by increase or decrease of pressure.
- C. The speed of sound increases with increase of temperature of the medium.
- D. The speed of sound is less in humid air than in dry air.

Choose the correct answer from the options given below:

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

Options :

- 68634024493. 1
- 68634024494. 2
- 68634024495. 3
- 68634024496. 4

Question Number : 25 Question Id : 6863406193 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 music composer of India has won the prestigious Grammy Awards 2023?

- 1. Ricky Kej
- 2. M.M. Keeravani
- 3. Pritam chakraborty
- 4. A.R Rahman

Options :

- 68634024497. 1
- 68634024498. 2
- 68634024499. 3
- 68634024500. 4

Question Number : 25 Question Id : 6863406193 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 music composer of India has won the prestigious Grammy Awards 2023?

1. Ricky Kej
2. M.M. Keeravani
3. Pritam chakraborty
4. A.R Rahman

Options :

68634024497. 1
68634024498. 2
68634024499. 3
68634024500. 4

Part B: Civil Structural Transport Engg

Section Id :	686340124
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 :	686340192
Question Shuffling Allowed :	Yes
Is Section Default? :	null

Question Number : 26 Question Id : 6863406194 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

Let $[x]$ denotes the integral part of x , if $\int_0^1 [x + x^3] dx = a$ then

1. $1 - a^3 + 3a^2 - 3a = 0$
2. $1 + a^3 - 3a^2 + 4a = 0$
3. $1 + a^3 - 3a^2 - 4a = 0$
4. $1 - a^3 + 3a^2 - 4a = 0$

Options :

68634024501. 1
68634024502. 2

68634024503. 3

68634024504. 4

Question Number : 26 Question Id : 6863406194 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

माना $[x]$, x के समाकल भाग को द्योतित करता है। यदि $\int_0^1 [x + x^3] dx = a$, तो

1. $1 - a^3 + 3a^2 - 3a = 0$

2. $1 + a^3 - 3a^2 + 4a = 0$

3. $1 + a^3 - 3a^2 - 4a = 0$

4. $1 - a^3 + 3a^2 - 4a = 0$

Options :

68634024501. 1

68634024502. 2

68634024503. 3

68634024504. 4

Question Number : 27 Question Id : 6863406195 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 quantity of water equal to 430 ml passed down in 10 minutes, under an effective constant head of 40 cm, then co-efficient of permeability of soil sample, 6cm in height and 50 cm² in cross-sectional area is:

1. 3 m/day

2. 2 m/day

3. 1.86 m/day

4. 2.76 m/day

Options :

68634024505. 1

68634024506. 2

68634024507. 3

68634024508. 4

Question Number : 27 Question Id : 6863406195 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 430 ml पानी की मात्रा 10 मिनट में, 40 cm प्रभावकारी स्थिरांक शीर्ष के अंतर्गत बह जाता है। तब मृदा के नमूने की पारगम्यता का गुणांक 6 cm ऊँचाई और 50 cm² अनुप्रस्थ परिच्छेद क्षेत्रफल क्या होगा ?

1. 3 m/day
2. 2 m/day
3. 1.86 m/day
4. 2.76 m/day

Options :

68634024505. 1
68634024506. 2
68634024507. 3
68634024508. 4

Question Number : 28 Question Id : 6863406196 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 20 cm square heating plate settles by 7 mm in the plate load test on cohesionless soil, when the intensity of loading is 180 kN/m². Estimate the settlement of a shallow foundation of 1.6 m square under the same intensity of loading

1. 14.74 m
2. 16.74mm
3. 13.74mm
4. 10 mm

Options :

68634024509. 1
68634024510. 2
68634024511. 3
68634024512. 4

Question Number : 28 Question Id : 6863406196 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 भारण की प्रबलता 180 kN/m^2 है, तो एक 20 cm की वर्गाकार ऊष्मा प्लेट, 7 mm . से संसक्तिहीन मृदा पर प्लेट भारण परीक्षण में स्थिर हो जाती है। भारण की इसी प्रबलता के अंतर्गत एक 1.6 m के वर्गाकार ज्यले आधार के स्थिर होने के लिए पूर्वानुमान करें।

1. 14.74 m
2. 16.74 mm
3. 13.74 mm
4. 10 mm

Options :

68634024509. 1
68634024510. 2
68634024511. 3
68634024512. 4

Question Number : 29 Question Id : 6863406197 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

Considerable loss of shear strength due to shock or disturbance is exhibited by

1. Under-consolidated clays
2. Normally consolidated clays
3. Over consolidated clays
4. Organic soil

Options :

68634024513. 1
68634024514. 2
68634024515. 3
68634024516. 4

Question Number : 29 Question Id : 6863406197 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

धक्के या विघन के कारण होने वाले अपरुपण ताकत का यथेष्ट हास निम्न में से किसके द्वारा प्रदर्शित होता है?

1. समेकित आधीन मृत्तिकाएँ
2. सामान्य समेकित मृत्तिकाएँ
3. अति समेकित मृत्तिकाएँ
4. कार्बनिक मृदा

Options :

68634024513. 1
68634024514. 2
68634024515. 3
68634024516. 4

**Question Number : 30 Question Id : 6863406198 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 designing end bearing piles of square cross-section in clays having average unconfined compressive strength of $8t/m^2$, the net ultimate bearing capacity may be taken as, take $N_c = 9$

1. $36 t/m^2$
2. $27 t/m^2$
3. $32 t/m^2$
4. $30 t/m^2$

Options :

68634024517. 1
68634024518. 2
68634024519. 3
68634024520. 4

**Question Number : 30 Question Id : 6863406198 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**

$8t/m^2$ औसत वाली असीमित संपीडित शक्ति वाली मृत्तिकाओं में वर्गाकार अनुदैर्घ्य परिच्छेदन के अंत्यो को वहन करने वाले पुँज के प्रारूपण के लिए वहन करने की कुल अंतिम क्षमता को _____ लिया जा सकता है। $N_c = 9$, लें

1. $36 t/m^2$
2. $27 t/m^2$
3. $32 t/m^2$
4. $30 t/m^2$

Options :

68634024517. 1
68634024518. 2
68634024519. 3
68634024520. 4

**Question Number : 31 Question Id : 6863406199 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 well-graded sand, the coefficient of curvature should be-

1. $cu \geq 4.00$
2. $cu \geq 6.00$
3. $cu \geq 1.00$
4. $cu \geq 3.00$

Options :

68634024521. 1
68634024522. 2
68634024523. 3
68634024524. 4

Question Number : 31 Question Id : 6863406199 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

भली प्रकार से श्रेणीकृत रेत के लिए वक्रता गुणांक _____ होना चाहिए।

1. $cu \geq 4.00$
2. $cu \geq 6.00$
3. $cu \geq 1.00$
4. $cu \geq 3.00$

Options :

68634024521. 1
68634024522. 2
68634024523. 3
68634024524. 4

Question Number : 32 Question Id : 6863406200 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

Hydraulic Jump occurs when:

1. Supercritical stream meets a subcritical stream of sufficient depth
2. Subcritical stream meets a Supercritical stream of sufficient depth
3. No meeting of stream occurs
4. Incoming Supercritical stream undergoes an abrupt fall in depth

Options :

68634024525. 1
68634024526. 2

68634024527. 3

68634024528. 4

Question Number : 32 Question Id : 6863406200 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

द्रवीय प्लुति तब होती है, जब →

1. अति-क्रांतिक धारा, पर्याप्त गहराई वाली उप-क्रांतिक धारा से मिलती है।
2. उप-क्रांतिक धारा, पर्याप्त गहराई वाली किसी अति-क्रांतिक धारा से मिलती है।
3. धाराएँ कहीं नहीं मिलती।
4. प्रवेशी अति-क्रांतिक धारा आकस्मिक रूप से गहराई में जाकर गिरती है।

Options :

68634024525. 1

68634024526. 2

68634024527. 3

68634024528. 4

Question Number : 33 Question Id : 6863406201 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

Newton's law of viscosity states that:

1. Shear stress on a fluid element layer is directly proportional to the rate of shear strain
2. Shear stress on a fluid element layer is inversely proportional to the rate of shear strain
3. Shear stress on a fluid element layer is directly proportional to the rate of Kinematic viscosity
4. Shear stress on a fluid element layer is inversely proportional to the rate of Kinematic viscosity

Options :

68634024529. 1

68634024530. 2

68634024531. 3

68634024532. 4

Question Number : 33 Question Id : 6863406201 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

न्यूटन का श्यानता का नियम दर्शाता है कि-

1. किसी तरल/द्रव तत्व की परत पर लगने वाल अपरुपण प्रतिबल अपरुपण विकृति की दर के अनुक्रमानुपाती होता है।
2. किसी द्रव तत्व की परत पर लगने वाला अपरुपण प्रतिबल, अपरुपण विकृति की दर के व्युत्क्रमानुपाती होता है।
3. किसी द्रव तत्व की परत पर लगने वाला अपरुपण प्रतिबल, गतिमान श्यानता की दर के अनुक्रमानुपाती होता है।
4. किसी द्रव तत्व की परत पर लगने वाला अपरुपण प्रतिबल, शुद्ध गतिक श्यानता की दर के व्युत्क्रमानुपाती होता है।

Options :

68634024529. 1
68634024530. 2
68634024531. 3
68634024532. 4

Question Number : 34 Question Id : 6863406202 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 critical depth and the corresponding specific energy for a Rectangular Channel having discharge of $5\text{m}^3/\text{s}$ and Bed width of 2.5m are

1. 0.741m & 1.11m respectively
2. 0.516m & 2.11m respectively
3. 0.512m & 1.62m respectively
4. 0.641m & 1.52m respectively

Options :

68634024533. 1
68634024534. 2
68634024535. 3
68634024536. 4

Question Number : 34 Question Id : 6863406202 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

$5\text{m}^3/\text{s}$ उत्सर्जन वाले तथा 2.5 m आधारीय चौड़ाई वाले किसी आयताकार चैनल की क्रांतिक गहराई तथा उसके अनुरूप विशिष्ट ऊर्जा क्या होगी ?

1. 0.741m तथा 1.11m क्रमशः
2. 0.516m तथा 2.11m क्रमशः
3. 0.512m तथा 1.62m क्रमशः
4. 0.641m तथा 1.52m क्रमशः

Options :

68634024533. 1
68634024534. 2
68634024535. 3
68634024536. 4

Question Number : 35 Question Id : 6863406203 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 n = porosity, S_y = specific yield & S_r = specific retention for an aquifa material. Which of the following options shows the correct relationship amongst these properties

1. $n = S_y + S_r$
2. $n = S_y - S_r$
3. $n = S_y \times S_r$
4. $n = S_y/S_r$

Options :

68634024537. 1
68634024538. 2
68634024539. 3
68634024540. 4

Question Number : 35 Question Id : 6863406203 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 किसी जलीय पदार्थ की n = सरंध्रता, S_y = विशिष्ट उपज तथा S_r = विशिष्ट अवरोधन है, तो निम्न में से कौन सा विकल्प इन विशेषताओं के परस्पर सही संबंध को दर्शाता है?

1. $n = S_y + S_r$
2. $n = S_y - S_r$
3. $n = S_y \times S_r$
4. $n = S_y/S_r$

Options :

68634024537. 1
68634024538. 2
68634024539. 3
68634024540. 4

Question Number : 36 Question Id : 6863406204 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

Relationship between kinematic Viscosity & Dynamic Viscosity is:

$$1. \text{ kinematic Viscosity} = \frac{\text{Dynamic Viscosity}}{\text{Density}}$$

$$2. \text{ kinematic Viscosity} = \text{Dynamic Viscosity} \times \text{Density}$$

$$3. \text{ kinematic Viscosity} = \frac{1}{\text{Dynamic Viscosity}}$$

$$4. \text{ kinematic Viscosity} = \frac{\text{Dynamic Viscosity}}{\text{Surface Tension}}$$

Options :

68634024541. 1

68634024542. 2

68634024543. 3

68634024544. 4

Question Number : 36 Question Id : 6863406204 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

शुद्ध गतिक श्यानता तथा गतिक श्यानता में क्या संबंध है?

$$1. \text{ शुद्धगतिक श्यानता} = \frac{\text{गतिक श्यानता}}{\text{घनत्व}}$$

$$2. \text{ शुद्धगतिक श्यानता} = \text{गतिक श्यानता} \times \text{घनत्व}$$

$$3. \text{ शुद्धगतिक श्यानता} = \frac{1}{\text{गतिक श्यानता}}$$

$$4. \text{ शुद्धगतिक श्यानता} = \frac{\text{गतिक श्यानता}}{\text{पृष्ठ तनाव}}$$

Options :

68634024541. 1

68634024542. 2

68634024543. 3

68634024544. 4

Question Number : 37 Question Id : 6863406205 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 gross commanded area for a distributary is 6000 hectares, 80% of which is cultable irrigable. The intensity of irrigation for Rabi season is 40%. The area to be irrigated in Rabi season is:

1. 2000 hectares
2. 2400 hectares
3. 1910 hectares
4. 1920 hectares

Options :

68634024545. 1
68634024546. 2
68634024547. 3
68634024548. 4

Question Number : 37 Question Id : 6863406205 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 वितरक नदी के सकल आधिपत्य का क्षेत्र 6000 hectare है जिसका 80% कृषियोग्य तथा सिंचाईयोग्य है। रबी के मौसम में सिंचाई की तीव्रता 40% है। रबी के मौसम में कितना क्षेत्र सिंचाई योग्य है?

1. 2000 hectares
2. 2400 hectares
3. 1910 hectares
4. 1920 hectares

Options :

68634024545. 1
68634024546. 2
68634024547. 3
68634024548. 4

Question Number : 38 Question Id : 6863406206 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

10 cumecs of water is delivered to a 30 hectare field, for 5 Hours. Soil probing after the irrigation indicates that 0.3 meter of water has been stored in the root zone. Farm efficiency comes out to be :

1. 45%
2. 55%
3. 50%
4. 100%

Options :

68634024549. 1
68634024550. 2
68634024551. 3
68634024552. 4

Question Number : 38 Question Id : 6863406206 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 30 hectare भूमि पर 5 घंटों के लिए 10 cumecs जल दिया गया/ सिंचाई के बाद मृदा परीक्षित्र द्वारा मालूम हुआ कि 0.3 m जल मूल क्षेत्र में एकत्र हो गया है। फार्म कुशलता कितनी होगी?

1. 45%
2. 55%
3. 50%
4. 100%

Options :

68634024549. 1
68634024550. 2
68634024551. 3
68634024552. 4

Question Number : 39 Question Id : 6863406207 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

Kirpich equation is used to determine which one of the following?

1. Run-off from a given rainfall
2. Base time of unit hydrograph
3. Time concentration in run-off hydrograph
4. None of the above

Options :

68634024553. 1
68634024554. 2
68634024555. 3
68634024556. 4

Question Number : 39 Question Id : 6863406207 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 निर्धारण के लिए क्रिपिक समीकरण का उपयोग किया जाता है?

1. किसी दी गई वर्षा वृष्टि द्वारा हुआ बाह
2. एकक जलारेख का आधार समय
3. जलारेख बाह में समय का संकेन्द्रण
4. उपरिलिखित में से कोई नहीं

Options :

68634024553. 1
68634024554. 2
68634024555. 3
68634024556. 4

Question Number : 40 Question Id : 6863406208 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 drawing BMD and SFD for a loaded beam the point of contraflexure is one which has

1. Shear Force as zero
2. Bending moment as zero
3. Shear Force changes sign
4. Bending moment changes sign

Options :

68634024557. 1
68634024558. 2
68634024559. 3
68634024560. 4

Question Number : 40 Question Id : 6863406208 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

भारित बीम में BMD तथा SFD का रेखांकन करने में कोन्ट्राफ्लैक्चर बिन्दु वह होगा जिसमें-

1. अपरुपण बल शून्य है।
2. बंकन आधूर्ण शून्य है।
3. अपरुपण बल में चिह्न परिवर्तन होता है।
4. बंकन आधूर्ण में चिह्न परिवर्तन होता है।

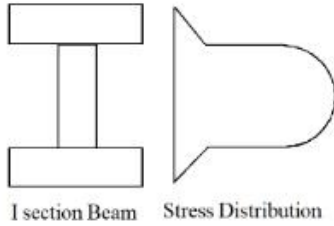
Options :

68634024557. 1

68634024558. 2
68634024559. 3
68634024560. 4

Question Number : 41 Question Id : 6863406209 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 stress distribution in I section beam is shown in adjacent Diagram. The exact name of this stress distribution is



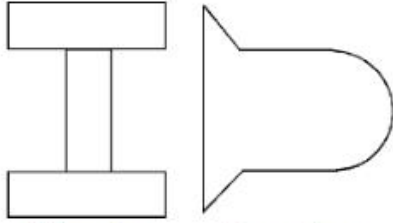
1. Bending stress
2. Shear stress
3. Bearing stress
4. Torsion stress

Options :

68634024561. 1
68634024562. 2
68634024563. 3
68634024564. 4

Question Number : 41 Question Id : 6863406209 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

दिए गए चित्र में I सेक्शन बीम में प्रतिबल का वितरण दर्शाया गया है। प्रतिबल के वितरण का सटीक नाम क्या है?फ



I सेक्शन बीम

प्रतिबल का वितरण

1. बंकन प्रतिबल
2. अपरूपण प्रतिबल
3. ब्रेकिंग प्रतिबल
4. टॉर्शन प्रतिबल

Options :

68634024561. 1
68634024562. 2
68634024563. 3
68634024564. 4

Question Number : 42 Question Id : 6863406210 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 correct match?

1. Purlin ISLC
2. Girder ISHB
3. Joist ISF
4. Castellated girder ISA

Options :

68634024565. 1
68634024566. 2
68634024567. 3
68634024568. 4

Question Number : 42 Question Id : 6863406210 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 सही मेलित है?

1. पुर्लिन ISLC
2. गर्डर ISHB
3. जॉयस्ट ISF
4. दुर्गाय गर्डर ISA

Options :

68634024565. 1
68634024566. 2
68634024567. 3
68634024568. 4

Question Number : 43 Question Id : 6863406211 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 optimum depth of plate girder is given by –

where M, k, r_{m0} and r_{m1} have their usual meaning

1. $\left(\frac{Mk^2}{fy} \right)^{0.33}$

2. $c > d$

3. $\left(\frac{M}{fyk^2} \right)^{0.33}$

4. $1.21 \sqrt{\frac{Mr_{m1}}{fy}}$

Options :

68634024569. 1
68634024570. 2
68634024571. 3
68634024572. 4

Question Number : 43 Question Id : 6863406211 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

प्लेट गर्डर की अधिकतम गहराई निम्न में से किसके द्वारा की जाती है?

यहाँ M, k, r_{m0} तथा r_{m1} के अपने सामान्य अर्थ हैं।

1. $\left(\frac{Mk^2}{fy} \right)^{0.33}$

2. $c > d$

3. $\left(\frac{M}{fyk^2} \right)^{0.33}$

4. $1.21 \sqrt{\frac{Mr_{m1}}{fy}}$

Options :

68634024569. 1

68634024570. 2

68634024571. 3

68634024572. 4

Question Number : 44 Question Id : 6863406212 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

Calculate the number of bricks required for a 5 cubic meter brick wall?

1. 250

2. 600

3. 1500

4. 2500

Options :

68634024573. 1

68634024574. 2

68634024575. 3

68634024576. 4

Question Number : 44 Question Id : 6863406212 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

5 cubic meter ईट की दीवार बनाने के लिए आवश्यक ईंटों की संख्या की गणना करें।

1. 250
2. 600
3. 1500
4. 2500

Options :

68634024573. 1
68634024574. 2
68634024575. 3
68634024576. 4

Question Number : 45 Question Id : 6863406213 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 main purpose of soundness test of the cement is to determine the

1. Change in volume of cement after setting
2. Strength
3. Fineness
4. Time taken to harden

Options :

68634024577. 1
68634024578. 2
68634024579. 3
68634024580. 4

Question Number : 45 Question Id : 6863406213 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

सिमेंट के निर्दोषता परीक्षण का मुख्य उद्देश्य निम्न में से क्या निर्धारित करना है?

1. सैट होने के बाद सिमेंट के आयतन में परिवर्तन
2. शक्ति
3. शुद्धता
4. जमने/सैट होने में लगा समय

Options :

68634024577. 1
68634024578. 2

68634024579. 3

68634024580. 4

Question Number : 46 Question Id : 6863406214 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 radius of a horizontal circular curve is 100 m. The design speed is 50 kmph and the design coefficient of lateral friction is 0.15. Calculate the super elevation required if full lateral friction is assumed to develop

1. 0.470

2. 0.150

3. 0.070

4. 0.047

Options :

68634024581. 1

68634024582. 2

68634024583. 3

68634024584. 4

Question Number : 46 Question Id : 6863406214 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 क्षैतिज वृत्तीय वक्र की त्रिज्या 100 m है। इसकी डिज़ाइन गति 50 kmph है तथा पार्श्व घर्षण का डिज़ाइन गुणांक 0.15 है। आवश्यक सुपर-उच्चता की गणना करें यदि यह मान लिया जाए कि पूर्ण पार्श्व घर्षण विकसित होगा।

1. 0.470

2. 0.150

3. 0.070

4. 0.047

Options :

68634024581. 1

68634024582. 2

68634024583. 3

68634024584. 4

Question Number : 47 Question Id : 6863406215 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 signal designing by IRC guidelines and Webster's approach, the pedestrian walking speed for pedestrian clearance time for crossing road is taken as

1. 1 m/s
2. 1.2 m/s
3. 1.5 m/s
4. 2.5 m/s

Options :

68634024585. 1
68634024586. 2
68634024587. 3
68634024588. 4

Question Number : 47 Question Id : 6863406215 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 निर्देशों तथा वैबस्टर के उपागम के अनुसार सिगनल को डिज़ाइन करने में, पैदल यात्रियों के सड़क पार करने के लिए पैदल यात्रियों के निकासी समय के लिए उनकी चलने की गति क्या है?

1. 1 m/s
2. 1.2 m/s
3. 1.5 m/s
4. 2.5 m/s

Options :

68634024585. 1
68634024586. 2
68634024587. 3
68634024588. 4

Question Number : 48 Question Id : 6863406216 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

Joints in concrete pavements are used to

1. Drainage purpose
2. Provide stability to concrete slab
3. Provide extra grip to tyre-pavement contact surface
4. Release stresses induced due to temperature variation

Options :

68634024589. 1
68634024590. 2
68634024591. 3
68634024592. 4

Question Number : 48 Question Id : 6863406216 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

बजरी वाले रास्तों पर जोड़ों का उपयोग क्यों किया जाता है?

1. निकासी के लिए
2. बजरी के स्लैब को स्थिरता देने के लिए।
3. टायर तथा पथ के संपर्क तल को अधिक पकड़ प्रदान करने के लिए
4. तापमान की विभिन्नताओं के कारण उत्पन्न होने वाले प्रतिबलों से निर्मुक्त होने के लिए

Options :

68634024589. 1
68634024590. 2
68634024591. 3
68634024592. 4

Question Number : 49 Question Id : 6863406217 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

Determine the braking distance for the following situation: Vehicle moving on a 3 per cent downhill grade at an initial speed of 50 km/h, final speed 20 km/h. assume coefficient of friction as 0.5 and reaction time 2.5 sec

1. 15.58 m
2. 17.57 m
3. 54.39 m
4. 30 m

Options :

68634024593. 1
68634024594. 2
68634024595. 3
68634024596. 4

Question Number : 49 Question Id : 6863406217 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 स्थितियों के लिए ब्रेक लगाने की दूरी निर्धारित करें: 50 km/hr. की प्रारम्भिक गति से किसी पहाड़ी के 3% नीचे के सोपान पर चलता वाहन जिसकी अंतिम गति 20 km/hr. है। घर्षण गुणांक को 0.5 तथा अभिक्रिया समय को 2.5 sec. मानें।

1. 15.58 m
2. 17.57 m
3. 54.39 m
4. 30 m

Options :

68634024593. 1
68634024594. 2
68634024595. 3
68634024596. 4

Question Number : 50 Question Id : 6863406218 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] and IRC: 86 – 1983[80] suggest the maximum limit of super-elevation for hilly terrains as

1. 0.04
2. 0.07
3. 0.10
4. 0.15

Options :

68634024597. 1
68634024598. 2
68634024599. 3
68634024600. 4

Question Number : 50 Question Id : 6863406218 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] तथा IRC : 86 – 1983 [80] यह सुझाव देता है कि पहाड़ी स्थानों पर सुपर-उच्चता की अधिकतम सीमा _____ है।

1. 0.04
2. 0.07
3. 0.10
4. 0.15

Options :

68634024597. 1
68634024598. 2
68634024599. 3
68634024600. 4

Question Number : 51 Question Id : 6863406219 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 duration of green time in a traffic signals depend on

1. Traffic density
2. Traffic volume
3. Traffic speed
4. All of the above

Options :

68634024601. 1
68634024602. 2
68634024603. 3
68634024604. 4

Question Number : 51 Question Id : 6863406219 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

यातायात के सिग्नल में हरी बत्ती की अवधि निम्न में से किस पर निर्भर करती है ?

1. ट्रैफिक (यातायात) का घनत्व
2. यातायात विपुलता
3. यातायात की गति
4. उपरिलिखित सभी

Options :

68634024601. 1
68634024602. 2
68634024603. 3
68634024604. 4

Question Number : 52 Question Id : 6863406220 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 is employed for the removal of particulate matter above 50μ in size?

1. Gravity settling chamber
2. Cyclone
3. Fabric filter
4. Electrostatic Precipitator

Options :

- 68634024605. 1
- 68634024606. 2
- 68634024607. 3
- 68634024608. 4

Question Number : 52 Question Id : 6863406220 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 किस मात्रक का उपयोग 50μ आमाप से अधिक के विविक्त को हटाने के लिए किया जाता है?

1. ग्रेविटी सैटलिंग चैम्बर
2. चक्रवात
3. कपड़े की छन्नी
4. इलेक्ट्रोस्टैटिक अवक्षेपक

Options :

- 68634024605. 1
- 68634024606. 2
- 68634024607. 3
- 68634024608. 4

Question Number : 53 Question Id : 6863406221 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 typical density in kg/cum (insitu) of well-compacted municipal solid waste in landfill is in the range of

1. 100 to 300
2. 310 to 500
3. 550 to 850
4. 900 to 1100

Options :

- 68634024609. 1
- 68634024610. 2

68634024611. 3

68634024612. 4

Question Number : 53 Question Id : 6863406221 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

लैंडफिल में भली प्रकार संघनित म्यूनििसिपल टोस अपक्षिष्ट का विशेष घनत्व kg./cum. (स्व स्थाने), का प्रसार क्या होता है?

1. 100 से 300

2. 310 से 500

3. 550 से 850

4. 900 से 1100

Options :

68634024609. 1

68634024610. 2

68634024611. 3

68634024612. 4

Question Number : 54 Question Id : 6863406222 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 reagent used for the titration of hardness is-

1. Sodium thio sulphate

2. EDTA

3. H₂SO₄

4. None of the above

Options :

68634024613. 1

68634024614. 2

68634024615. 3

68634024616. 4

Question Number : 54 Question Id : 6863406222 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

कठोरता के अनुमापन के लिए उपयोग में लाया जाने वाला अधिकतम कौन सा है?

1. सोडियम थायो सल्फेट
2. EDTA
3. H_2SO_4
4. इनमें से कोई नहीं

Options :

68634024613. 1
68634024614. 2
68634024615. 3
68634024616. 4

Question Number : 55 Question Id : 6863406223 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

Most poisonous pollutant in water is-

1. Zinc
2. Arsenic
3. Phosphates
4. Cadmium

Options :

68634024617. 1
68634024618. 2
68634024619. 3
68634024620. 4

Question Number : 55 Question Id : 6863406223 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

जल में पाया जाने वाला सर्वाधिक विषाक्त प्रदूषक कौन सा है?

1. जिंक
2. आर्सेनिक
3. फॉस्फेट
4. कैडमियम

Options :

68634024617. 1

68634024618. 2
68634024619. 3
68634024620. 4

Question Number : 56 Question Id : 6863406224 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 equivalent weight of CaSO_4 in mg/meq is

1. 58
2. 78
3. 68
4. 88

Options :

68634024621. 1
68634024622. 2
68634024623. 3
68634024624. 4

Question Number : 56 Question Id : 6863406224 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

CaSO_4 में, mg/meq में समसंयोजक भार कितना है?

1. 58
2. 78
3. 68
4. 88

Options :

68634024621. 1
68634024622. 2
68634024623. 3
68634024624. 4

Question Number : 57 Question Id : 6863406225 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

Molarity is related to mg/l as:

1. Molarity = $\text{mg/l} \times \text{molecular weight} \times 10^3$

2. Molarity = $\frac{\text{mg/l} \times 10^3}{\text{molecular weight}}$

3. Molarity = $\frac{\text{molecular weight} \times 10^3}{\text{mg/l}}$

4. Molarity = $\frac{\text{mg/l}}{\text{molecular weight} \times 10^3}$

Options :

68634024625. 1

68634024626. 2

68634024627. 3

68634024628. 4

Question Number : 57 Question Id : 6863406225 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

mg/l से ग्रामाणता का क्या संबंध है?

1. ग्रामाणता = $\text{mg/l} \times \text{अणु भार} \times 10^3$

2. ग्रामाणता = $\frac{\text{mg/l} \times 10^3}{\text{अणु भार}}$

3. ग्रामाणता = $\frac{\text{अणु भार} \times 10^3}{\text{mg/l}}$

4. ग्रामाणता = $\frac{\text{mg/l}}{\text{अणु भार} \times 10^3}$

Options :

68634024625. 1

68634024626. 2

68634024627. 3

68634024628. 4

Question Number : 58 Question Id : 6863406226 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 theoretical oxygen demand (THOD) of 54.45 mg/l of glucose($C_6H_{12}O_6$) is:

1. 58.08 mg/l O_2
2. 68.08 mg/l O_2
3. 78.88 mg/l O_2
4. 48.88 mg/l O_2

Options :

68634024629. 1
68634024630. 2
68634024631. 3
68634024632. 4

Question Number : 58 Question Id : 6863406226 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

54.45 mg/l ग्लूकोस ($C_6H_{12}O_6$) के लिए (THOD) सैद्धांतिक ऑक्सीजन माँग कितनी है?

1. 58.08 mg/l O_2
2. 68.08 mg/l O_2
3. 78.88 mg/l O_2
4. 48.88 mg/l O_2

Options :

68634024629. 1
68634024630. 2
68634024631. 3
68634024632. 4

Question Number : 59 Question Id : 6863406227 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

Geodimeter is based on

1. High frequency Radio waves
2. Propagation of modulated light waves
3. The visible light as carrier waves with frequency of the order 5×10^6 Hz
4. Propagation of modulated light waves

Options :

68634024633. 1
68634024634. 2
68634024635. 3
68634024636. 4

Question Number : 59 Question Id : 6863406227 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

ज्योडीमीटर निम्नलिखित में से किस पर आधारित है?

1. उच्च बारंबारता वाली रेडियो तरंगें
2. संग्राहक प्रकाश तरंगों का प्रसार
3. 5×10^6 Hz आर्डर की बारंबारता वाली कैरियर तरंगों के रूप में दृश्यमान प्रकाश
4. संग्राहक प्रकाश तरंगों का प्रसार

Options :

68634024633. 1
68634024634. 2
68634024635. 3
68634024636. 4

Question Number : 60 Question Id : 6863406228 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 an Inclined terrain, If the elevation difference between the two ends of a line is 'h' and the inclined length of the line is 'L', the correction for slope is

1. $\frac{h^2}{L^2}$
2. $\frac{h^2}{2L}$
3. $\frac{2h^2}{L^2}$
4. $\frac{h^2}{2L^2}$

Options :

68634024637. 1
68634024638. 2
68634024639. 3
68634024640. 4

Question Number : 60 Question Id : 6863406228 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 आनत भूभाग में, यदि किसी रेखा के दो सिरों में उच्चता अंतर 'h' है तथा रेखा की आनत लंबाई L है, तो ढलान के लिए संशोधन _____ होगा।

1. $\frac{h^2}{L^2}$

2. $\frac{h^2}{2L}$

3. $\frac{2h^2}{L^2}$

4. $\frac{h^2}{2L^2}$

Options :

- 68634024637. 1
- 68634024638. 2
- 68634024639. 3
- 68634024640. 4

Question Number : 61 Question Id : 6863406229 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 length of one link in a 20m chain is-

1. 25 cm

2. 20 cm

3. 30 cm

4. 35 cm

Options :

- 68634024641. 1
- 68634024642. 2
- 68634024643. 3
- 68634024644. 4

Question Number : 61 Question Id : 6863406229 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

एक 20 m लम्बी श्रृंखला में एक बंध की लंबाई क्या है?

1. 25 cm
2. 20 cm
3. 30 cm
4. 35 cm

Options :

68634024641. 1
68634024642. 2
68634024643. 3
68634024644. 4

Question Number : 62 Question Id : 6863406230 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 the equator, the dip of the needle is-

1. 180°
2. 0°
3. 90°
4. 120°

Options :

68634024645. 1
68634024646. 2
68634024647. 3
68634024648. 4

Question Number : 62 Question Id : 6863406230 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

सामान्तर रेखा पर सुई की नति क्या है?

1. 180°
2. 0°
3. 90°
4. 120°

Options :

68634024645. 1

68634024646. 2
68634024647. 3
68634024648. 4

**Question Number : 63 Question Id : 6863406231 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**

Considering Shear waves travelling vertically through a soil layer of depth H. The period of horizontal vibration of the soil is

n = an integer

V_s = is velocity of shear wave

$$1. T_H = \frac{4H^2}{(2n-1)V_s}$$

$$2. T_H = \frac{4V_s^2}{(4n-1)H}$$

$$3. T_H = \frac{4H}{(2n-1)V_s}$$

$$4. T_H = \frac{2V_s}{(4n-1)H}$$

Options :

68634024649. 1
68634024650. 2
68634024651. 3
68634024652. 4

**Question Number : 63 Question Id : 6863406231 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 H गहराई मृदा की परत से अपरूपण तरंग ऊर्ध्व रूप से जाती हैं, तो मृदा की क्षैतिज कंपन की अवधि क्या है?

n = एक पूर्णांक

V_s = अपरूपण तरंगों का वेग

$$1. T_H = \frac{4H^2}{(2n-1)V_s}$$

$$2. T_H = \frac{4V_s^2}{(4n-1)H}$$

$$3. T_H = \frac{4H}{(2n-1)V_s}$$

$$4. T_H = \frac{2V_s}{(4n-1)H}$$

Options :

68634024649. 1

68634024650. 2

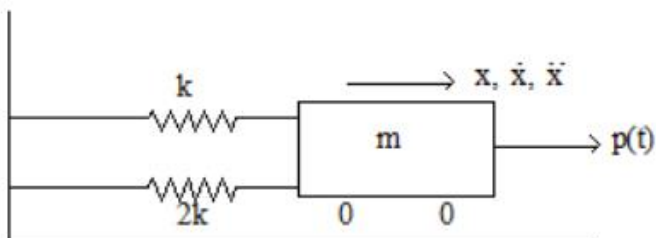
68634024651. 3

68634024652. 4

Question Number : 64 Question Id : 6863406232 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 equation of motion of the spring mass system is-



$$1. m\ddot{x} + 2kx = p(t)$$

$$2. m\ddot{x} + 3kx = p(t)$$

$$3. m\ddot{x} + \frac{2}{3}kx = p(t)$$

$$4. m\ddot{x} + \frac{3}{2}kx = p(t)$$

Options :

68634024653. 1

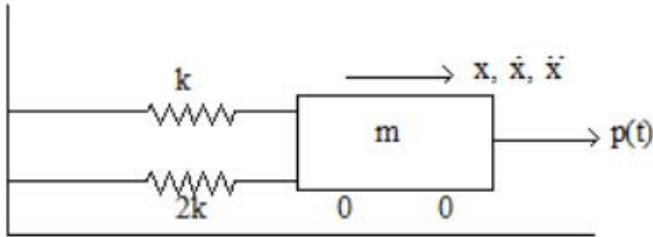
68634024654. 2

68634024655. 3

68634024656. 4

Question Number : 64 Question Id : 6863406232 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

स्प्रिंग मास सिस्टम के लिए गति का समीकरण क्या है?



1. $m\ddot{x} + 2kx = p(t)$
2. $m\ddot{x} + 3kx = p(t)$
3. $m\ddot{x} + \frac{2}{3}kx = p(t)$
4. $m\ddot{x} + \frac{3}{2}kx = p(t)$

Options :

68634024653. 1

68634024654. 2

68634024655. 3

68634024656. 4

Question Number : 65 Question Id : 6863406233 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

Cantilever retaining walls can safely be used for a height not more than

1. 3m
2. 4m
3. 5m
4. 6m

Options :

68634024657. 1

68634024658. 2

68634024659. 3

68634024660. 4

Question Number : 65 Question Id : 6863406233 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

कैटीलीवर रिटेनिंग दीवारों को सुरक्षित रूप से _____ से अधिक ऊँचाई तक उपयोग नहीं किया जा सकता।

1. 3m
2. 4m
3. 5m
4. 6m

Options :

68634024657. 1
68634024658. 2
68634024659. 3
68634024660. 4

Question Number : 66 Question Id : 6863406234 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 other is labelled as **Reason R**

Assertion A: $\int_0^{\pi/2} \frac{\cos x}{\sin x + \cos x} dx = \frac{\pi}{4}$

Reason R: $\int_0^{\pi/2} \frac{\sin x}{\sin x + \cos x} dx = \frac{\pi}{4}$

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 and **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 :

68634024661. 1
68634024662. 2
68634024663. 3
68634024664. 4

Question Number : 66 Question Id : 6863406234 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 :

$$\text{अभिकथन A: } \int_0^{\pi/2} \frac{\cos x}{\sin x + \cos x} dx = \frac{\pi}{4}$$

$$\text{कारण R: } \int_0^{\pi/2} \frac{\sin x}{\sin x + \cos x} dx = \frac{\pi}{4}$$

उपरोक्त कथन के आलोक में, नीचे दिए गए विकल्पों में से सबसे उपयुक्त 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 :

68634024661. 1
68634024662. 2
68634024663. 3
68634024664. 4

Question Number : 67 Question Id : 6863406235 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 other is labelled as **Reason R** let A and be two symmetric matrices of order 3.

Assertion A: $A(BA) & (AB)A$ are symmetric matrices

Reason R: AB is symmetric matrix if matrix multiplication of A with B is commutative

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 and **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 :

68634024665. 1
68634024666. 2
68634024667. 3
68634024668. 4

Question Number : 67 Question Id : 6863406235 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 : माना की **A** तथा **B** ऑर्डर तीन के, दो सममित आव्यूह है।

अभिकथन A: $A(BA)$ तथा $(AB)A$, सममित आव्यूह हैं।

कारण R: AB एक सममित आव्यूह है यदि A तथा B आव्यूहों का गुणन क्रमविनिमेय है।

उपरोक्त कथन के आलोक में, नीचे दिए गए विकल्पों में से सबसे उपयुक्त 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 :

68634024665. 1
68634024666. 2
68634024667. 3
68634024668. 4

Question Number : 68 Question Id : 6863406236 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 other is labelled as **Reason R**

Assertion A: If an event is certain to happen then its probability is unity.

Reason R: If an event is certain not to happen then its probability is $\frac{1}{2}$

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 and **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 :

68634024669. 1
68634024670. 2
68634024671. 3
68634024672. 4

Question Number : 68 Question Id : 6863406236 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 कोई घटना निश्चित रूप से घटित होने वाली है तो उसकी प्रायिकता 1 है।

कारण R: यदि कोई घटना निश्चित पर नहीं घटेगी तो उसकी प्रायिकता $\frac{1}{2}$ है।

उपरोक्त कथन के आलोक में, नीचे दिए गए विकल्पों में से सबसे उपयुक्त 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 :

68634024669. 1

68634024670. 2

68634024671. 3

68634024672. 4

Question Number : 69 Question Id : 6863406237 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 other is labelled as **Reason R**

Assertion A: Cantilever, Simply supported & overhanging beams are known as statically determinate beams.

Reason R: Statically Determinate teams are those beams in which reaction of the beams at their supports can be determined by the use of equations of static equilibrium

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 and **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 :

68634024673. 1

68634024674. 2

68634024675. 3

68634024676. 4

Question Number : 69 Question Id : 6863406237 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: कैटिलीवर, साधारण अवलंब वाली तथा प्रलंबी बीमों को सांख्यिकीयतः परिमित बीम कहा जाता है।

कारण R: सांख्यिकीयतः परिमित बीमों वह हैं जिन में बीमों के अवलंबों पर अभिक्रियाओं को स्थिर साम्यावस्था के समीकरण के उपयोग द्वारा निर्धारित किया जा सकता है।

उपरोक्त कथन के आलोक में, नीचे दिए गए विकल्पों में से सबसे उपयुक्त 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 :

68634024673. 1
68634024674. 2
68634024675. 3
68634024676. 4

Question Number : 70 Question Id : 6863406238 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 other is labelled as **Reason R**

Assertion A: Composting is the most commonly used process for the decomposition of organic components of municipal solid wastes.

Reason R: Bangalore method is a common anaerobic method used for biological conversion of organic components of municipal solid waste

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 and **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 :

68634024677. 1
68634024678. 2
68634024679. 3
68634024680. 4

Question Number : 70 Question Id : 6863406238 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: म्यूनिसिपैलिटी से प्राप्त होने वाले ठोस अपशिष्टों के कार्बनिक घटकों के उपघटन के लिए सबसे अधिक सामान्य रूप से उपयोग में लाई जाने वाली प्रक्रिया, कम्पोस्टिंग है।

कारण R: म्यूनिसिपैलिटी से प्राप्त होने वाले ठोस अपशिष्टों के कार्बनिक घटकों के जैविक परिवर्तन के लिए सामान्यतः उपयोग में लाई जाने वाली अवायवीय विधि, बंगलुरु विधि है।

उपरोक्त कथन के आलोक में, नीचे दिए गए विकल्पों में से सबसे उपयुक्त 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 :

68634024677. 1
68634024678. 2
68634024679. 3
68634024680. 4

Question Number : 71 Question Id : 6863406239 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 other is labelled as **Reason R**

Assertion A: The leakage losses are less when the water supply is intermittent

Reason R: Pressure is less in intermittent water supply

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 and **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 :

68634024681. 1
68634024682. 2
68634024683. 3
68634024684. 4

Question Number : 71 Question Id : 6863406239 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: जब जल आपूर्ति आंतरायिक होती है तो रिसाव से होने वाली हानि कम हो जाती है।

कारण R: आंतरायिक जल आपूर्ति में दाब कम होता है।

उपरोक्त कथन के आलोक में, नीचे दिए गए विकल्पों में से सबसे उपयुक्त 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 :

- 68634024681. 1
- 68634024682. 2
- 68634024683. 3
- 68634024684. 4

Question Number : 72 Question Id : 6863406240 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 other is labelled as **Reason R**

Assertion A: Displacement seismograph is known as short period seismograph

Reason R: An acceleration seismograph is also known as short period seismograph

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 and **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 :

- 68634024685. 1
- 68634024686. 2
- 68634024687. 3
- 68634024688. 4

Question Number : 72 Question Id : 6863406240 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: विस्थापन सीज़मोग्राफ (भूकंपलेखी) को अल्प अवधि भूकंपलेखी कहते हैं।

कारण R: एक त्वरण भूकंपलेखी को अल्प अवधि भूकंपलेखी भी कहते हैं।

उपरोक्त कथन के आलोक में, नीचे दिए गए विकल्पों में से सबसे उपयुक्त 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 :

- 68634024685. 1
- 68634024686. 2
- 68634024687. 3
- 68634024688. 4

Question Number : 73 Question Id : 6863406241 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 soils with respect to increasing order of realizable friction ratio

- A. Loose Gravel Fill
- B. Sands or Gravels
- C. Clay sand mixture and Silts
- D. Clay & Peats

choose the correct answer from the options given below:

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

Options :

- 68634024689. 1
- 68634024690. 2
- 68634024691. 3
- 68634024692. 4

Question Number : 73 Question Id : 6863406241 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 मृदाओं को प्राप्य घर्षण अनुपात के संदर्भ में आरोही क्रम में लिखें।

- A. बजरी से विरल भरण
- B. बालू अथवा ग्रेवल
- C. चिकनी मिट्टी व बालू का मिश्रण तथा सिल्ट (गाद)
- D. चिकनी मिट्टी तथा पीट (सड़ा गला घास-पात)

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

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

Options :

- 68634024689. 1
- 68634024690. 2
- 68634024691. 3
- 68634024692. 4

Question Number : 74 Question Id : 6863406242 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 (name of quantities)		LIST II (units of quantities in SI system)	
A.	Dynamic Viscosity	I.	N/m
B.	Kinematic Viscosity	II.	N.m
C.	Surface Tension	III.	N.S/m ²
D.	Energy	IV.	m ² /S
E.	Specific Weight	V.	N/m ³

Choose the correct answer from the options given below:

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

Options :

- 68634024693. 1
- 68634024694. 2

68634024695. 3

68634024696. 4

Question Number : 74 Question Id : 6863406242 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 (नाम)		सूची II (SI इकाई)	
A.	गतिक श्यानता	I.	N/m
B.	शुद्ध गतिक श्यानता	II.	N.m
C.	विशिष्ट भार	III.	N.S/m ²
D.	पृष्ठ तनाव	IV.	m ² /S
E.	ऊर्जा	V.	N/m ³

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

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

Options :

68634024693. 1

68634024694. 2

68634024695. 3

68634024696. 4

Question Number : 75 Question Id : 6863406243 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 probability based assessment of safety is ensured by-

- A. Plastic Analysis
- B. Statistical method
- C. Reliability Approach
- D. Working stress method
- E. Limit state Design

choose the correct answer from the options given below:

1. A & B are correct
2. B & C are correct
3. C & A are correct
4. D & E are correct

Options :

- 68634024697. 1
- 68634024698. 2
- 68634024699. 3
- 68634024700. 4

Question Number : 75 Question Id : 6863406243 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

सुरक्षा के प्राथिकता-आधारित आकलन को निम्न में से किसके द्वारा सुनिश्चित किया जाता है ?

- A. सांख्यिकीय विधि
- B. विश्वसनीयता एंफ्रेच
- C. वर्किंग स्ट्रेस विधि
- D. लिमिट स्टेट प्रारूप

नीचे दिए गए विकल्पों में से सही उत्तर का चयन कीजिए

- 1. A & B सही हैं
- 2. B & C सही हैं
- 3. C & A सही हैं
- 4. D & E सही हैं

Options :

- 68634024697. 1
- 68634024698. 2
- 68634024699. 3
- 68634024700. 4

Question Number : 76 Question Id : 6863406244 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 correct sequence of the following treatment units employed in a conventional sewage treatment plant?

- A. Screen chamber
- B. Primary settling tank
- C. Trickling filter
- D. Unit chamber
- E. Secondary settling tank

choose the correct answer from the options given below:

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

Options :

- 68634024701. 1
- 68634024702. 2
- 68634024703. 3
- 68634024704. 4

Question Number : 76 Question Id : 6863406244 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 परम्परागत मलजल उपचार संयंत्र में नियोजित निम्नलिखित उपचार इकाईयों का सही क्रम क्या है?

- A. आवरण कक्ष/कोष्ठ
- B. प्राथमिक निःसादन टंकी
- C. च्यावी फिल्टर
- D. एकक कक्ष/कोष्ठ
- E. द्वितीयक निःसादन टंकी

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

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

Options :

- 68634024701. 1
- 68634024702. 2
- 68634024703. 3
- 68634024704. 4

Question Number : 77 Question Id : 6863406245 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 set of internal angles of triangle does not show well condition triangle

- A. 20, 90, 70
- B. 25, 45, 110
- C. 40, 125, 15
- D. 35, 80, 65

choose the correct answer from the options given below:

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

Options :

- 68634024705. 1
- 68634024706. 2
- 68634024707. 3
- 68634024708. 4

Question Number : 77 Question Id : 6863406245 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 किसी त्रिभुज के आंतरिक कोणों का कौन सा समुच्चय एक अच्छी स्थिति के त्रिभुज को नहीं दर्शाता ?

- A. 20, 90, 70
- B. 25, 45, 110
- C. 40, 125, 15
- D. 35, 80, 65

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

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

Options :

- 68634024705. 1
- 68634024706. 2
- 68634024707. 3
- 68634024708. 4

Question Number : 78 Question Id : 6863406246 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 requirements for design of a transition curve for a highway system

- A. Rate of change of grade
- B. Rate of change of radial acceleration
- C. Rate of change of super elevation
- D. Rate of change of curvature
- E. Rate of change of traffic volume

choose the correct answer from the options given below:

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

Options :

- 68634024709. 1
- 68634024710. 2
- 68634024711. 3
- 68634024712. 4

Question Number : 78 Question Id : 6863406246 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 राजमार्ग पद्धति में संक्रमण वक्र के डिजाइन के लिए निम्न (हाईवे) में से क्या-क्या आवश्यक है?

- A. ग्रेड परिवर्तन की दर
- B. अरीय त्वरण के परिवर्तन की दर
- C. अति-उच्चता में परिवर्तन की दर
- D. वक्रता में परिवर्तन की दर
- E. यातायात विपुलता में परिवर्तन की दर

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

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

Options :

- 68634024709. 1
- 68634024710. 2
- 68634024711. 3

68634024712. 4

Question Number : 79 Question Id : 6863406247 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 factors are taken into consideration for determining yellow time of traffic signal at an intersection

- A. Length of vehicle
- B. Width of vehicle
- C. Approach speed
- D. Stopping time for approaching vehicle
- E. Passing sight Distance

choose the correct answer from the options given below:

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

Options :

- 68634024713. 1
- 68634024714. 2
- 68634024715. 3
- 68634024716. 4

Question Number : 79 Question Id : 6863406247 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 चौराहे पर यातायात संकेतक की पीली बत्ती के समय के निर्धारण के लिए निम्न में से कौन से कारकों को ध्यान में रखा जाता है?

- A. वाहन की लंबाई
- B. वाहन की चौड़ाई
- C. समीप आने की गति
- D. आने वाले वाहन के रुकने का समय
- E. दृश दूरी से गुजरना

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

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

Options :

68634024713. 1
68634024714. 2
68634024715. 3
68634024716. 4

Question Number : 80 Question Id : 6863406248 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: Three types of bearing capacity failures are general Shear failure, local Shear failure & punching Shear failure

Statement II: MeyerLoff is known as father of Soil mechanics

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 :

68634024717. 1
68634024718. 2
68634024719. 3
68634024720. 4

Question Number : 80 Question Id : 6863406248 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) : धारण करने की क्षमता में तीन प्रकार की असफलताएँ हैं – सामान्य अपरूपण असफलता, स्थानिक अपरूपण असफलता तथा वेधनी अपरूपण असफलता।

कथन (II) : मैयरलॉफ को मृदा क्रियाविधि का जनक माना जाता है।

उपरोक्त कथन के आलोक में, नीचे दिए गए विकल्पों में से सही 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 :

68634024717. 1
68634024718. 2
68634024719. 3

68634024720. 4

Question Number : 81 Question Id : 6863406249 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: Darcy's law is a particular case of the general viscous fluid flow.

Statement II: It has been shown valid for Laminar flows only

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 :

68634024721. 1
68634024722. 2
68634024723. 3
68634024724. 4

Question Number : 81 Question Id : 6863406249 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) : डार्सी का सिद्धान्त सामान्य श्यान तरल प्रवाह का एक विशेष उदाहरण है।

कथन (II) : इसको केवल पटलीय प्रवाहों के लिए ही वैध माना जाता है।

उपरोक्त कथन के आलोक में, नीचे दिए गए विकल्पों में से सही 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 :

68634024721. 1
68634024722. 2
68634024723. 3
68634024724. 4

Question Number : 82 Question Id : 6863406250 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: PERT is based on deterministic approach

Statement II: CPM is based on probabilistic approach

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 :

68634024725. 1
68634024726. 2
68634024727. 3
68634024728. 4

Question Number : 82 Question Id : 6863406250 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) : (PERT) पर्ट निर्धारणात्मक उपागम पर आधारित है।

कथन (II) : CPM प्राथिकतात्मक उपागम पर आधारित है।

उपरोक्त कथन के आलोक में, नीचे दिए गए विकल्पों में से सही 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 :

68634024725. 1
68634024726. 2
68634024727. 3
68634024728. 4

Question Number : 83 Question Id : 6863406251 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: "Pratt Trusses" are structurally better than "Howe Trusses"

Statement II: Pratt trusses are favoured because due to gravity loads the longer member will be in tension while for Howe Truss, the longer members will be in compression

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 :

68634024729. 1
68634024730. 2
68634024731. 3
68634024732. 4

Question Number : 83 Question Id : 6863406251 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) : "Howe ट्रसों" की तुलना में "प्राट ट्रस" संरचनात्मक रूप से बेहतर होते हैं।

कथन (II) : "प्राट ट्रसों" का समर्थन किया जाता है क्योंकि गुरुत्व भारों के कारण अधिक लम्बा सदस्य तनाव में रहेगा जबकि "Howe ट्रस" के लिए अधिक लम्बे सदस्य संपीड़न में रहेंगे।

उपरोक्त कथन के आलोक में, नीचे दिए गए विकल्पों में से सही 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 :

68634024729. 1
68634024730. 2
68634024731. 3
68634024732. 4

Question Number : 84 Question Id : 6863406252 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: In India, the legal axle load for single axle is 10.2 tonnes.

Statement II: In India, the standard axle load is 10.2 tonnes

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 :

68634024733. 1
68634024734. 2
68634024735. 3
68634024736. 4

Question Number : 84 Question Id : 6863406252 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) : भारत में एकल धुरी के लिए वैध धुरी भार 10.2 टन है।

कथन (II) : भारत में मानक धुरी भार 10.2 टन 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 :

68634024733. 1
68634024734. 2
68634024735. 3
68634024736. 4

Question Number : 85 Question Id : 6863406253 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: Nagpur road conference was convened in 1943 by the Government of India to finalise the first road development plan for the country.

Statement II: The first 20 year road development plan, popularly known as the Nagpur Road Plan.

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 :

68634024737. 1
68634024738. 2
68634024739. 3
68634024740. 4

Question Number : 85 Question Id : 6863406253 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) : भारत सरकार द्वारा 1943 में नागपुर सड़क सम्मेलन का आयोजन किया गया। यह देश के लिए प्रथम सड़क विकास योजना को अंतिम प्रारूप देने के लिए किया गया था।

कथन (II) : प्रथम 20 वर्षीय सड़क विकास योजना नागपुर सड़क योजना के नाम से प्रसिद्ध 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 :

68634024737. 1
68634024738. 2
68634024739. 3
68634024740. 4

Question Number : 86 Question Id : 6863406254 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: pH are measured by Jackson turbidimeter

Statement II: Turbidity is measured by Jackson turbidimeter

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 :

68634024741. 1
68634024742. 2
68634024743. 3
68634024744. 4

Question Number : 86 Question Id : 6863406254 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) : pH का मापन जैक्सन आविलतामापी द्वारा किया जाता है।

कथन (II) : आविलता का मापन जैक्सन आविलतामापी द्वारा किया जाता 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 :

68634024741. 1
68634024742. 2
68634024743. 3
68634024744. 4

Question Number : 87 Question Id : 6863406255 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

Considering consistency limits or Atterberg limits four fine grained soils:

- A. Liquid limit is the water content corresponding to arbitrary limit between liquid & plastic state
- B. Plastic limit is the water content corresponding to arbitrary limit between plastic & semi-solid state
- C. Shrinkage limits is defined as the maximum water content at which reduction in water content will not cause decrease in volume of soil mass
- D. Plasticity Index is defined as numerical difference between liquid limit & Shrinkage limit
- E. Consistency Index or Relative consistency is the ratio of plasticity Index and Liquidity Index

choose the correct answer from the options given below:

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

Options :

- 68634024745. 1
- 68634024746. 2
- 68634024747. 3
- 68634024748. 4

Question Number : 87 Question Id : 6863406255 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

महीन कण मृदा के संदर्भ में संसक्ति सीमाओं अथवा एटरबर्ग सीमाओं को ध्यान में रखते हुए

- A. तरलता सीमा जल की वह मात्रा है जो तरल और प्लास्टिक अवस्था के बीच विवेकाधीन सीमा के अनुरूप है।
- B. प्लास्टिक अवस्था जल की वह मात्रा है जो प्लास्टिक तथा अर्ध ठोस अवस्था के बीच विवेकाधीन सीमा के अनुरूप है।
- C. संकुचन सीमा, जल की वह अधिकतम मात्रा है जिस पर जल की मात्रा में कमी आने से मृदा संहति के आयतन में न्यूनता नहीं आएगी।
- D. तरलता सीमा तथा संकुचन सीमा के बीच संख्यात्मक अंतर को प्लास्टिकता सूचकांक कहते हैं।
- E. संसक्ति सूचकांक या सापेक्ष संसक्ति, प्लास्टिकता सूचकांक तथा तरलता सूचकांक का अनुपात है।

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

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

Options :

- 68634024745. 1
- 68634024746. 2
- 68634024747. 3
- 68634024748. 4

Question Number : 88 Question Id : 6863406256 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

Regarding effective length (KL) of column the statements are-

- A. For braced frames, can never be more than 1
- B. For unbraced frames, will always be more than 1
- C. For braced frame, may be greater than one
- D. For unbraced frame, will always be less than one
- E. It always equal to one for braced and unbraced frames

choose the correct answer from the options given below:

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

Options :

- 68634024749. 1
- 68634024750. 2
- 68634024751. 3
- 68634024752. 4

Question Number : 88 Question Id : 6863406256 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

कॉलम की प्रभावशाली लंबाई (KL) के विषय में निम्नलिखित कथन है।

- A. बांधित फ्रेम के लिए कभी भी 1 से अधिक नहीं हो सकती
- B. मुक्त फ्रेमों के लिए सदा 1 से अधिक होती है।
- C. बांधित फ्रेमों के लिए 1 से अधिक हो सकती है।
- D. मुक्त फ्रेमों के लिए सदा 1 से कम होती है।
- E. बांधित तथा मुक्त फ्रेमों के लिए सदा 1 के बराबर होती है।

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

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

Options :

- 68634024749. 1
- 68634024750. 2
- 68634024751. 3

68634024752. 4

Question Number : 89 Question Id : 6863406257 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

Critical Path Method is good for

- A. Small projects
- B. Large projects
- C. Both small and large projects
- D. Neither small and large projects

Choose the correct answer from the options given below:

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

Options :

- 68634024753. 1
- 68634024754. 2
- 68634024755. 3
- 68634024756. 4

Question Number : 89 Question Id : 6863406257 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

क्रांतिक मार्ग विधि निम्न में किसके लिए अच्छी है?

- A. छोटी परियोजनाएँ
- B. बड़ी परियोजनाएँ
- C. छोटी तथा बड़ी, दोनों प्रकार की परियोजनाएँ
- D. छोटी तथा बड़ी कोई भी परियोजना नहीं

नीचे दिए गए विकल्पों में से सबसे उपयुक्त उत्तर का चयन कीजिए :

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

Options :

- 68634024753. 1
- 68634024754. 2
- 68634024755. 3

68634024756. 4

Question Number : 90 Question Id : 6863406258 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 stress reduction factor for an axially loaded compression member depends upon which of the following factors-

- A. Residual stresses
- B. Initial crookedness
- C. Accidental eccentricities of load
- D. Type of cross-section

Choose the correct answer from the options given below:

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

Options :

- 68634024757. 1
- 68634024758. 2
- 68634024759. 3
- 68634024760. 4

Question Number : 90 Question Id : 6863406258 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 अक्षीय भारित संपीडन सदस्य के लिए तनाव में कमी लाने वाले कारक निम्न में से किन कारकों पर निर्भर करते हैं?

- A. अवशिष्ट तनाव
- B. प्रारम्भिक मोड़
- C. भार की आकस्मिक उत्केन्द्रता
- D. अनुप्रस्थ परिच्छेद का प्रकार

नीचे दिए गए विकल्पों में से सबसे उपयुक्त उत्तर का चयन कीजिए :

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

Options :

- 68634024757. 1
- 68634024758. 2

68634024759. 3

68634024760. 4

Question Number : 91 Question Id : 6863406259 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 responsible for the formation of photochemical smog?

- A. Light intensity
- B. Ratio of Hydrocarbons to nitric oxide
- C. CO₂
- D. Hydrocarbon reactivity

choose the correct answer from the options given below:

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

Options :

68634024761. 1

68634024762. 2

68634024763. 3

68634024764. 4

Question Number : 91 Question Id : 6863406259 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 कौन प्रकाश रासायनिक धूमकोहरे के बनने के लिए उत्तरदायी है?

- A. प्रकाश की तीव्रता
- B. हाइड्रोकार्बन व नाइट्रिक ऑक्साइड का अनुपात
- C. CO₂
- D. हाइड्रोकार्बन अभिक्रियण

नीचे दिए गए विकल्पों में से सबसे उपयुक्त उत्तर का चयन कीजिए :

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

Options :

68634024761. 1

68634024762. 2
68634024763. 3
68634024764. 4

Question Number : 92 Question Id : 6863406260 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 equipments can be employed for measurement of horizontal distance

- A. Tacheometer
- B. Odometer
- C. Passometer
- D. Perambulator

choose the correct answer from the options given below:

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

Options :

68634024765. 1
68634024766. 2
68634024767. 3
68634024768. 4

Question Number : 92 Question Id : 6863406260 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 दूरी के मापन के लिए निम्न में से कौन से उपकरणों का उपयोग किया जा सकता है?

- A. जवमापी/टैकियोमीटर
- B. पथमापी/ओडोमीटर
- C. पैसोमीटर
- D. परैम्बुलेटर

नीचे दिए गए विकल्पों में से सबसे उपयुक्त उत्तर का चयन कीजिए :

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

Options :

68634024765. 1

68634024766. 2

68634024767. 3

68634024768. 4

Question Number : 93 Question Id : 6863406261 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 are the general design requirements of retaining wall?

- A. The factor of safety against sliding should be atleast 1.5
- B. The factor of safety against overturning should be atleast 2.0.
- C. The bearing pressure at toe should be less than bearing capacity of soil
- D. The length of retaining wall to be cast in one go should not exceed 10m otherwise crack may develop

Choose the correct answer from the options given below:

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

Options :

68634024769. 1

68634024770. 2

68634024771. 3

68634024772. 4

Question Number : 93 Question Id : 6863406261 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

धारक भित्ति/दीवार के लिए निम्न में से कौन सी सामान्य प्रारूप आवश्यकताएँ हैं?

- A. सर्पण के विरुद्ध सुरक्षा कारक से कम से कम 1.5 होना चाहिए।
- B. प्रतिवल के विरुद्ध सुरक्षा कारक कम से कम 2.0 होना चाहिए।
- C. तल पर दिक्मान भार, मृदा की दिक्मान क्षमता से कम होना चाहिए।
- D. एक ही बार में बनाई जाने वाली धारक भित्ति की लंबाई 10 मीटर से अधिक नहीं होनी चाहिए वरना दरारें पड़ जाएँगी।

नीचे दिए गए विकल्पों में से सबसे उपयुक्त उत्तर का चयन कीजिए :

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

Options :

68634024769. 1

68634024770. 2
68634024771. 3
68634024772. 4

Question Number : 94 Question Id : 6863406262 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.	AQUEDUCT	I.	Drain is taken over canal & FSL is below the bottom of Drain trough
B.	SYPHON-AQUEDUCT	II.	Drain is taken over canal & FSL of the canal is above the bed level of Drain trough
C.	SUPER-PASSAGE	III.	Canal is taken over the natural drain & HFL of drain is below the bottom of canal
D.	CANAL SYPHON/SYPHON	IV.	Canal is taken over the natural drain & HFL of drain is above the canal bed

Choose the correct answer from the options given below:

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

Options :

68634024773. 1
68634024774. 2
68634024775. 3
68634024776. 4

Question Number : 94 Question Id : 6863406262 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.	एक्विड्रट	I.	नाले को नहर के ऊपर से ले जाते हैं तथा FSL वाले के ड्रेजिंगका के तल से नीचे होता है।
B.	साइफन-एक्विड्रट	II.	नाले को नहर के ऊपर से ले जाते हैं तथा नहर के FSL को निकासी क्रोशिका के तल उत्तोलक से ऊपर होता है।
C.	सुपर-पथ	III.	नहर को प्राकृतिक नाले से ऊपर रखते हैं तथा नाले का HFL नहर के तल से नीचे होता है।
D.	नहर साइफन/साइफन	IV.	नहर को प्राकृतिक नाले से ऊपर रखते हैं तथा नाले का HFL नहर के तल से ऊपर होता है।

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

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

Options :

68634024773. 1
68634024774. 2
68634024775. 3
68634024776. 4

Question Number : 95 Question Id : 6863406263 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 Dimensionless Number		LIST II Ratio	
A.	Reynold's Number	I.	$\sqrt{\frac{\text{Inertia force}}{\text{Gravity force}}}$
B.	Froude's Number	II.	Inertia force/ viscous force
C.	Euler's Number	III.	$\sqrt{\frac{\text{Inertia force}}{\text{elastic force}}}$
D.	Mach's Number	IV.	$\sqrt{\frac{\text{Inertia force}}{\text{Pressure force}}}$

Choose the correct answer from the options given below:

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

Options :

68634024777. 1
68634024778. 2
68634024779. 3
68634024780. 4

Question Number : 95 Question Id : 6863406263 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 आयामहीन संख्या		सूची II अनुपात	
A.	सिलेंड की संख्या	I.	$\sqrt{\frac{\text{जड़त्व बल}}{\text{गुरुत्व बल}}}$
B.	फ्राउड की संख्या	II.	जड़त्व बल/श्यान बल
C.	यूलर की संख्या	III.	$\sqrt{\frac{\text{जड़त्व बल}}{\text{प्रत्यास्थ बल}}}$
D.	मैक की संख्या	IV.	$\sqrt{\frac{\text{जड़त्व बल}}{\text{दाब बल}}}$

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

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

Options :

68634024777. 1
68634024778. 2
68634024779. 3
68634024780. 4

Question Number : 96 Question Id : 6863406264 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.	Young's modulus	I.	Lateral strain / Linear strain
B.	Modulus of Rigidity	II.	Shear stress/ Shear strain
C.	Poisson's Ratio	III.	Longitudinal stress/ Longitudinal strain
D.	Bulk Modulus	IV.	Volumetric stress/ Volumetric strain

Choose the correct answer from the options given below:

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

Options :

68634024781. 1
68634024782. 2
68634024783. 3
68634024784. 4

Question Number : 96 Question Id : 6863406264 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.	यंग का मापांक	I.	पार्श्व विकृति/रैखीय विकृति
B.	दृढ़ता का मापांक	II.	अपरूपण तनाव/अपरूपण विकृति
C.	पॉयसन का अनुपात	III.	अनुदैर्घ्य तनाव/अनुदैर्घ्य विकृति
D.	समष्टि मापांक	IV.	आयतनी तनाव/आयतनी विकृति

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

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

Options :

68634024781. 1
68634024782. 2
68634024783. 3
68634024784. 4

Question Number : 97 Question Id : 6863406265 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.	Members subjected to direct tension or compression	I.	slot weld
B.	Joining two surface at 90°	II.	seam weld
C.	A hole is made in one point and welding is done on periphery	III.	fillet weld
D.	Pressure is applied contineously	IV.	Butt weld

Choose the correct answer from the options given below:

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

Options :

- 68634024785. 1
- 68634024786. 2
- 68634024787. 3
- 68634024788. 4

Question Number : 97 Question Id : 6863406265 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.	प्रत्यक्ष तनाव या संपीड़न से संबंधित सदस्य	I.	खाँचित वेल्ड
B.	दो पृष्ठों को 90° पर जोड़ना	II.	संस्तर वेल्ड
C.	एक भाग में छिद्र किया जाता है तथा परिरक्षा में वेल्ड किया जाता है।	III.	फिल्ट वेल्ड
D.	निरंतर दाब बनाया जाता है।	IV.	बट वेल्ड

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

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

Options :

68634024785. 1
68634024786. 2
68634024787. 3
68634024788. 4

Question Number : 98 Question Id : 6863406266 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.	Dissolved solids	I.	Sedimentation
B.	Colloidal solids	II.	Reverse osmosis
C.	Volatile solids	III.	Coagulation
D.	Settleable solids	IV.	Digestion

Choose the correct answer from the options given below:

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

Options :

68634024789. 1
68634024790. 2
68634024791. 3
68634024792. 4

Question Number : 98 Question Id : 6863406266 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.	घुले हुए ठोस	I.	अवसादन
B.	कोलायडीय ठोस	II.	प्रतिवर्ती परासरण
C.	वाष्पशील ठोस	III.	स्कंठन
D.	डूब जाने वाले ठोस	IV.	पाचन

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

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

Options :

68634024789. 1
 68634024790. 2
 68634024791. 3
 68634024792. 4

Question Number : 99 Question Id : 6863406267 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.	Adjustment of surveying Instruments	I.	Bringing the various fixed part of the instruments into proper relation
B.	Bowditch's Rule	II.	solution of 3 point problem
C.	Triangulation	III.	Measuring all the angles and base line
D.	Bessel's Method	IV.	Balancing the latitudes & departure

Choose the correct answer from the options given below:

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

Options :

68634024793. 1
68634024794. 2
68634024795. 3
68634024796. 4

**Question Number : 99 Question Id : 6863406267 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.	सर्वेक्षण यंत्रों का समायोजन	I.	यंत्रों के विभिन्न स्थाई भागों को एक दूसरे के साथ उचित संबंध में लाना
B.	बाउंडिट का नियम	II.	3-बिन्दु समस्या का समाधान
C.	त्रिकोणीयन	III.	सभी कोणों तथा आधार रेखा का मापन
D.	बैसल की विधि	IV.	सभी अक्षंशों तथा प्रत्यंतयों को संतुलित करता

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

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

Options :

68634024793. 1
68634024794. 2
68634024795. 3
68634024796. 4

**Question Number : 100 Question Id : 6863406268 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 (Material)		LIST II (Damping Ratio)	
A.	Concrete	I.	12%
B.	Steel	II.	5 – 7%
C.	Wood	III.	< 2%
D.	Brick	IV.	5%

Choose the correct answer from the options given below:

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

Options :

68634024797. 1
68634024798. 2
68634024799. 3
68634024800. 4

Question Number : 100 Question Id : 6863406268 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 पदार्थ/सामग्री		सूची II अवमंदन अनुपात	
A.	बजरी	I.	12%
B.	स्टील	II.	5 - 7%
C.	काष्ठ/लकड़ी	III.	< 2%
D.	ईट	IV.	5%

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

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

Options :

68634024797. 1
68634024798. 2
68634024799. 3
68634024800. 4