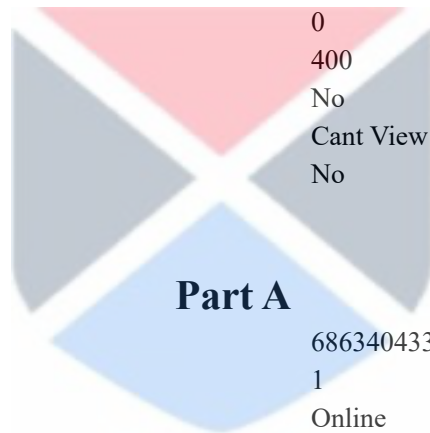


National Testing Agency

Question Paper Name : B Ed Mathematics Eng 15th June 2023 Shift 3
Subject Name : B Ed Mathematics Eng
Creation Date : 2023-06-15 21:11:23
Duration : 120
Total Marks : 400
Display Marks: Yes

B Ed Mathematics

Group Number : 1
Group Id : 686340217
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



Section Id : 686340433
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 : 686340713
Question Shuffling Allowed : No
Is Section Default? : null

Question Id : 68634021867 **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

Read the passage very carefully and answer the questions.

Good Med Abroad Is Good Med fir Home

The directorate General of Foreign Trade (DGFT) has made it mandatory for all cough syrup exporters to have their product tested and certified for quality at specified government laboratories before shipping out export orders. This is welcome. It will begin to repair the reputational damage over alleged Indian cough syrup-related deaths in some countries last year. Safeguarding quality cannot be limited to some products or to exports.

Ensuring quality is the Central Drugs Standard Control Organization's (CDSCO) responsibility, not DGFT's. Setting norms for exports is like applying a band-aid to a wound that requires stitches. CDSCO needs an overhaul. In the current fragmented system, quality and standardization are casualties. A modern, Independent, statutory regulatory system that has the capacity to provide oversight to an increasingly complex pharmaceutical industry while protecting public health and patient rights is required. CDSCO is the non-statutory regulator under the health ministry. It has no jurisdiction over State Drug Regulatory Authorities (SDRAs) that are part of state health departments. Each regulatory body acts independent of the other. This must change. The regulatory approach, too, needs to change. Shifting from an overwhelming focus on manufacturing to public health requires putting a doctor in charge, and shifting the regulator with multidisciplinary teams.

India is the third-largest pharma manufacturer, meeting 20% of global generic demand. The \$41 billion industry is estimated to grow further - \$50-65 billion by 2025, and \$120-130 billion by 2030. Ensuring all Indian pharma products meets quality standards will help with public health both at home and abroad, while growing India's pharma footprint.

Sub questions

Question Number : 1 Question Id : 68634021868 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

CDSCO stands for :

1. Center for Drugs Taste Control Organisation
2. Center for Drum Taste Control Organisation
3. Center for Drugs Taste Connection Organisation
4. Central Drugs Standard Control Organisation

Options :

- 68634086401. 1
- 68634086402. 2
- 68634086403. 3
- 68634086404. 4

Question Number : 2 Question Id : 68634021869 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

Synonym or the term 'Overhaul'

1. Overhear
2. Examine
3. Excessive growth
4. Overexpose

Options :

68634086405. 1
68634086406. 2
68634086407. 3
68634086408. 4

Question Number : 3 Question Id : 68634021870 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

According to this paragraph whose duty is to ensure quality of the drugs in India ?

1. CDSCO
2. DGFT
3. CDMO
4. CDVO



Options :

68634086409. 1
68634086410. 2
68634086411. 3
68634086412. 4

Question Number : 4 Question Id : 68634021871 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

Generic medicines are :

1. Medicines used by high class people.
2. Medicines having old brand name.
3. Medicines having no brand name.
4. Medicines meant for plants and animals only.

Options :

68634086413. 1
68634086414. 2
68634086415. 3

Question Number : 5 Question Id : 68634021872 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1

Billion means :

1. 10 Crore
2. 10 Million
3. 100 Million
4. 1000 Million

Options :

68634086417. 1
 68634086418. 2
 68634086419. 3
 68634086420. 4

Question Id : 68634021867 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

Read the passage very carefully and answer the questions.

Good Med Abroad Is Good Med fir Home

The directorate General of Foreign Trade (DGFT) has made it mandatory for all cough syrup exporters to have their product tested and certified for quality at specified government laboratories before shipping out export orders. This is welcome. It will begin to repair the reputational damage over alleged Indian cough syrup-related deaths in some countries last year. Safeguarding quality cannot be limited to some products or to exports.

Ensuring quality is the Central Drugs Standard Control Organization's (CDSCO) responsibility, not DGFT's. Setting norms for exports is like applying a band-aid to a wound that requires stitches. CDSCO needs an overhaul. In the current fragmented system, quality and standardization are casualties. A modern, Independent, statutory regulatory system that has the capacity to provide oversight to an increasingly complex pharmaceutical industry while protecting public health and patient rights is required. CDSCO is the non-statutory regulator under the health ministry. It has no jurisdiction over State Drug Regulatory Authorities (SDRAs) that are part of state health departments. Each regulatory body acts independent of the other. This must change. The regulatory approach, too, needs to change. Shifting from an overwhelming focus on manufacturing to public health requires putting a doctor in charge, and shifting the regulator with multidisciplinary teams.

India is the third-largest pharma manufacturer, meeting 20% of global generic demand. The \$41 billion industry is estimated to grow further -\$50-65 billion by 2025, and \$120-130 billion by 2030. Ensuring all Indian pharma products meets quality standards will help with public health both at home and abroad, while growing India's pharma footprint.

Sub questions

Question Number : 1 Question Id : 68634021868 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0
Correct Marks : 4 Wrong Marks : 1

CDSCO stands for :

1. Center for Drugs Taste Control Organisation
2. Center for Drum Taste Control Organisation
3. Center for Drugs Taste Connection Organisation
4. Central Drugs Standard Control Organisation

Options :

68634086401. 1
68634086402. 2
68634086403. 3
68634086404. 4

Question Number : 2 Question Id : 68634021869 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0
Correct Marks : 4 Wrong Marks : 1

Synonym or the term 'Overhaul'

1. Overhear
2. Examine
3. Excessive growth
4. Overexpose

Options :

68634086405. 1
68634086406. 2
68634086407. 3
68634086408. 4

Question Number : 3 Question Id : 68634021870 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0
Correct Marks : 4 Wrong Marks : 1

According to this paragraph whose duty is to ensure quality of the drugs in India ?

1. CDSCO
2. DGFT
3. CDMO
4. CDVO

Options :

68634086409. 1
68634086410. 2
68634086411. 3
68634086412. 4

Question Number : 4 Question Id : 68634021871 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0
Correct Marks : 4 Wrong Marks : 1

Generic medicines are :

1. Medicines used by high class people.
2. Medicines having old brand name.
3. Medicines having no brand name.
4. Medicines meant for plants and animals only.

Options :

68634086413. 1
68634086414. 2
68634086415. 3
68634086416. 4

Question Number : 5 Question Id : 68634021872 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0
Correct Marks : 4 Wrong Marks : 1

Billion means :

1. 10 Crore
2. 10 Million
3. 100 Million
4. 1000 Million

Options :

68634086417. 1
68634086418. 2
68634086419. 3
68634086420. 4

Sub-Section Number :

2

Sub-Section Id :

686340714

Question Shuffling Allowed :

Yes

Is Section Default? :

null

Question Number : 6 Question Id : 68634021873 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0
Correct Marks : 4 Wrong Marks : 1

Pick out the meaning of the underlined word in the following sentence:

He is done for.

1. revived
2. ruined
3. glorified
4. encouraged

Options :

68634086421. 1
68634086422. 2
68634086423. 3
68634086424. 4

Question Number : 6 Question Id : 68634021873 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

Pick out the meaning of the underlined word in the following sentence:

He is done for.

1. revived
2. ruined
3. glorified
4. encouraged

Options :

68634086421. 1
68634086422. 2
68634086423. 3
68634086424. 4

Question Number : 7 Question Id : 68634021874 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

Rearrange the following parts of a sentence to make a meaningful sentence.

P. much as a common

Q. love, friendship and respect

R. do not unite people as

S. hatred for something

Choose the correct answer from the options given below:

1. S, P, R, Q

2. Q, S, R, P

3. P, Q, S, R

4. Q, R, P, S

Options :

68634086425. 1

68634086426. 2

68634086427. 3

68634086428. 4

Question Number : 7 Question Id : 68634021874 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

Rearrange the following parts of a sentence to make a meaningful sentence.

P. much as a common

Q. love, friendship and respect

R. do not unite people as

S. hatred for something

Choose the correct answer from the options given below:

1. S, P, R, Q

2. Q, S, R, P

3. P, Q, S, R

4. Q, R, P, S

Options :

68634086425. 1

68634086426. 2

68634086427. 3

68634086428. 4

Question Number : 8 Question Id : 68634021875 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1

Identify the part of speech of the underlined word in the following sentence.

You are paying less attention to your studies than you used to do.

1. Noun
2. Pronoun
3. Verb
4. Adjective

Options :

68634086429. 1
68634086430. 2
68634086431. 3
68634086432. 4

Question Number : 8 Question Id : 68634021875 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1

Identify the part of speech of the underlined word in the following sentence.

You are paying less attention to your studies than you used to do.

1. Noun
2. Pronoun
3. Verb
4. Adjective

Options :

68634086429. 1
68634086430. 2
68634086431. 3
68634086432. 4

Question Number : 9 Question Id : 68634021876 Question Type : MCQ Option Shuffling : No 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 passive voice of the following sentence.

She looks after the child.

1. The child are looked after by her.
2. The child were looked after by her.
3. The child is looked after by her.
4. The child looks after her.

Options :

68634086433. 1
68634086434. 2
68634086435. 3
68634086436. 4

Question Number : 9 Question Id : 68634021876 Question Type : MCQ Option Shuffling : No 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 passive voice of the following sentence.

She looks after the child.

1. The child are looked after by her.
2. The child were looked after by her.
3. The child is looked after by her.
4. The child looks after her.

Options :

68634086433. 1
68634086434. 2
68634086435. 3
68634086436. 4

Question Number : 10 Question Id : 68634021877 Question Type : MCQ Option Shuffling : No 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 one word for the following:

"Possessing unlimited powers."

1. Omniscient
2. Omnipotent
3. Omnipresent
4. Omnicompetent

Options :

68634086437. 1
68634086438. 2
68634086439. 3
68634086440. 4

Question Number : 10 Question Id : 68634021877 Question Type : MCQ Option Shuffling : No 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 one word for the following:

"Possessing unlimited powers."

1. Omniscient
2. Omnipotent
3. Omnipresent
4. Omnicompetent



Options :

68634086437. 1
68634086438. 2
68634086439. 3
68634086440. 4

Question Number : 11 Question Id : 68634021878 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

Who among the following was an Indian astronomer, mathematician and astrologer who lived in Ujjain in the 6th century AD and was one of the nine jewels (Navratnas) of the court of legendary ruler Yashodharman vikramaditya of Malwa?

1. Bhaskaracharya
2. Gotam Muni
3. Ishwarakrishna
4. Varahamihira

Options :

68634086441. 1
68634086442. 2
68634086443. 3
68634086444. 4

Question Number : 11 Question Id : 68634021878 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

Who among the following was an Indian astronomer, mathematician and astrologer who lived in Ujjain in the 6th century AD and was one of the nine jewels (Navratnas) of the court of legendary ruler Yashodharman vikramaditya of Malwa?

1. Bhaskaracharya
2. Gotam Muni
3. Ishwarakrishna
4. Varahamihira

Options :

68634086441. 1
68634086442. 2
68634086443. 3
68634086444. 4

Question Number : 12 Question Id : 68634021879 Question Type : MCQ Option Shuffling : No 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 first Indian Athlete to win Olympic Gold Medal for India is :

1. P.T. Usha
2. Vijendra Singh
3. Neeraj Chopra
4. P.V. Sindhu

Options :

- 68634086445. 1
- 68634086446. 2
- 68634086447. 3
- 68634086448. 4

Question Number : 12 Question Id : 68634021879 Question Type : MCQ Option Shuffling : No 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 first Indian Athlete to win Olympic Gold Medal for India is :

- 1. P.T. Usha
- 2. Vijendra Singh
- 3. Neeraj Chopra
- 4. P.V. Sindhu

Options :

- 68634086445. 1
- 68634086446. 2
- 68634086447. 3
- 68634086448. 4

Question Number : 13 Question Id : 68634021880 Question Type : MCQ Option Shuffling : No 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 Milk produced during the initial few days of 'lactation' is called :

- 1. Antrum
- 2. Colostrum
- 3. Fulcrum
- 4. Cholesterol

Options :

- 68634086449. 1
- 68634086450. 2
- 68634086451. 3
- 68634086452. 4

Question Number : 13 Question Id : 68634021880 Question Type : MCQ Option Shuffling : No 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 Milk produced during the initial few days of 'lactation' is called :

1. Antrum
2. Colostrum
3. Fulcrum
4. Cholesterol

Options :

68634086449. 1
68634086450. 2
68634086451. 3
68634086452. 4

Question Number : 14 Question Id : 68634021881 Question Type : MCQ Option Shuffling : No 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 caves and rock-cut temples at Ellora belong to which of the following religion(s)?

- A. Confucianism
- B. Jainism
- C. Buddhism
- D. Hindu

Choose the correct answer from the options given below:

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

Options :

68634086453. 1
68634086454. 2
68634086455. 3
68634086456. 4

Question Number : 14 Question Id : 68634021881 Question Type : MCQ Option Shuffling : No 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 caves and rock-cut temples at Ellora belong to which of the following religion(s)?

- A. Confucianism
- B. Jainism
- C. Buddhism
- D. Hindu

Choose the correct answer from the options given below:

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

Options :

- 68634086453. 1
- 68634086454. 2
- 68634086455. 3
- 68634086456. 4

Question Number : 15 Question Id : 68634021882 Question Type : MCQ Option Shuffling : No 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 constitute the electoral college for electing the President of India?

- A. Elected members of Lok Sabha
- B. Elected members of the Legislative Assembly of each state
- C. Elected members of the Legislative Council
- D. Elected members of Rajya Sabha

Choose the correct answer from the options given below:

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

Options :

- 68634086457. 1
- 68634086458. 2
- 68634086459. 3
- 68634086460. 4

Question Number : 15 Question Id : 68634021882 Question Type : MCQ Option Shuffling : No 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 constitute the electoral college for electing the President of India?

- A. Elected members of Lok Sabha
- B. Elected members of the Legislative Assembly of each state
- C. Elected members of the Legislative Council
- D. Elected members of Rajya Sabha

Choose the correct answer from the options given below:

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

Options :

- 68634086457. 1
- 68634086458. 2
- 68634086459. 3
- 68634086460. 4

Question Number : 16 Question Id : 68634021883 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

In a row of students, the position of Vikas from the left side of the row is 18th and the position of Vikas from the right side of the row is 38th. Find the total number of students in the row?

- 1. 55
- 2. 56
- 3. 57
- 4. 58

Options :

- 68634086461. 1
- 68634086462. 2
- 68634086463. 3
- 68634086464. 4

Question Number : 16 Question Id : 68634021883 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

In a row of students, the position of Vikas from the left side of the row is 18th and the position of Vikas from the right side of the row is 38th. Find the total number of students in the row?

1. 55
2. 56
3. 57
4. 58

Options :

68634086461. 1
68634086462. 2
68634086463. 3
68634086464. 4

Question Number : 17 Question Id : 68634021884 Question Type : MCQ Option Shuffling : No 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 for each number in the given options, all their digits are arranged in descending order, which among the following corresponds to the smallest number?

1. 865
2. 468
3. 593
4. 786

Options :

68634086465. 1
68634086466. 2
68634086467. 3
68634086468. 4

Question Number : 17 Question Id : 68634021884 Question Type : MCQ Option Shuffling : No 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 for each number in the given options, all their digits are arranged in descending order, which among the following corresponds to the smallest number?

1. 865
2. 468
3. 593
4. 786

Options :

68634086465. 1
68634086466. 2
68634086467. 3
68634086468. 4

Question Number : 18 Question Id : 68634021885 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0
Correct Marks : 4 Wrong Marks : 1

Statement : No country is absolutely self-dependent these days.

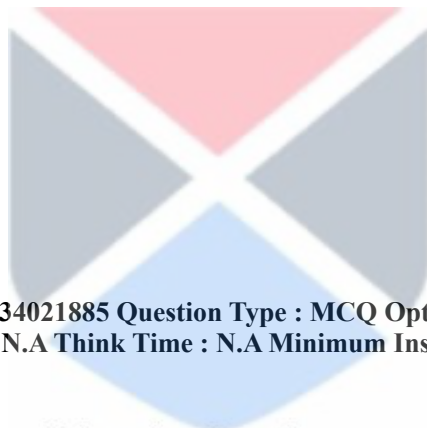
Conclusion : I. It is impossible to grow and produce all that a country needs.

II. The people of the country in general have become lazy.

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

Options :

68634086469. 1
68634086470. 2
68634086471. 3
68634086472. 4



Question Number : 18 Question Id : 68634021885 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0
Correct Marks : 4 Wrong Marks : 1

Statement : No country is absolutely self-dependent these days.

Conclusion : I. It is impossible to grow and produce all that a country needs.

II. The people of the country in general have become lazy.

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

Options :

68634086469. 1
68634086470. 2
68634086471. 3
68634086472. 4

Question Number : 19 Question Id : 68634021886 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

Look at the series : 1224, 612, 204, 102, 34,..... Which one of the following numbers should come next in the series?

1. 18
2. 17
3. 16
4. 15

Options :

68634086473. 1
68634086474. 2
68634086475. 3
68634086476. 4

Question Number : 19 Question Id : 68634021886 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

Look at the series : 1224, 612, 204, 102, 34,..... Which one of the following numbers should come next in the series?

1. 18
2. 17
3. 16
4. 15

Options :

68634086473. 1
68634086474. 2
68634086475. 3
68634086476. 4

Question Number : 20 Question Id : 68634021887 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

Six friends Arun, Babita, Chandra, Dipika, Ekta and Faria are sitting in a row facing towards North. Chandra is sitting between Arun and Ekta. Dipika is not at the end. Babita is sitting immediate right to Ekta. Faria is not at the right end. Who is at the immediate right of Dipila?

1. Arun
2. Babita
3. Chandra
4. Ekta

Options :

68634086477. 1
68634086478. 2
68634086479. 3
68634086480. 4

Question Number : 20 Question Id : 68634021887 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

Six friends Arun, Babita, Chandra, Dipika, Ekta and Faria are sitting in a row facing towards North. Chandra is sitting between Arun and Ekta. Dipika is not at the end. Babita is sitting immediate right to Ekta. Faria is not at the right end. Who is at the immediate right of Dipila?

1. Arun
2. Babita
3. Chandra
4. Ekta

Options :

68634086477. 1
68634086478. 2
68634086479. 3
68634086480. 4

Question Number : 21 Question Id : 68634021888 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

If the equation $3x^2 - 10x + 2p = 0$ has equal roots then the value of p is -

1. $-\frac{25}{3}$
2. $\frac{25}{6}$
3. $\frac{25}{3}$
4. $-\frac{25}{6}$

Options :

68634086481. 1
68634086482. 2
68634086483. 3
68634086484. 4

Question Number : 21 Question Id : 68634021888 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

If the equation $3x^2 - 10x + 2p = 0$ has equal roots then the value of p is -

1. $-\frac{25}{3}$
2. $\frac{25}{6}$
3. $\frac{25}{3}$
4. $-\frac{25}{6}$

Options :

68634086481. 1
68634086482. 2
68634086483. 3
68634086484. 4

Question Number : 22 Question Id : 68634021889 Question Type : MCQ Option Shuffling : No 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 certain sum invested on compound interest becomes 3 times in 4 years, then the no. of years in which this sum will become 27 times at the same rate of interest is -

1. 16 years
2. 18 years
3. 15 years
4. 12 years

Options :

68634086485. 1
68634086486. 2
68634086487. 3
68634086488. 4

Question Number : 22 Question Id : 68634021889 Question Type : MCQ Option Shuffling : No 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 certain sum invested on compound interest becomes 3 times in 4 years, then the no. of years in which this sum will become 27 times at the same rate of interest is -

1. 16 years
2. 18 years
3. 15 years
4. 12 years

Options :

68634086485. 1
68634086486. 2
68634086487. 3
68634086488. 4

Question Number : 23 Question Id : 68634021890 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

Two fair dice are thrown. The probability that the number of times the first dice exceeds 3 and that the second exceeds 4 will be :

1. $\frac{2}{6}$

2. $\frac{5}{6}$

3. $\frac{1}{6}$

4. $\frac{3}{6}$

Options :

68634086489. 1

68634086490. 2

68634086491. 3

68634086492. 4

Question Number : 23 Question Id : 68634021890 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

Two fair dice are thrown. The probability that the number of times the first dice exceeds 3 and that the second exceeds 4 will be :

1. $\frac{2}{6}$

2. $\frac{5}{6}$

3. $\frac{1}{6}$

4. $\frac{3}{6}$

Options :

68634086489. 1

68634086490. 2

68634086491. 3

68634086492. 4

Question Number : 24 Question Id : 68634021891 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

The average of 11 numbers is 52. The average of the first 6 numbers is 55 and the average of last 6 numbers is 49. The sixth number is :

1. 51
2. 49
3. 52
4. 55

Options :

68634086493. 1
68634086494. 2
68634086495. 3
68634086496. 4

Question Number : 24 Question Id : 68634021891 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

The average of 11 numbers is 52. The average of the first 6 numbers is 55 and the average of last 6 numbers is 49. The sixth number is :

1. 51
2. 49
3. 52
4. 55

Options :

68634086493. 1
68634086494. 2
68634086495. 3
68634086496. 4

Question Number : 25 Question Id : 68634021892 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

Two trains each of length 250 m start at the same time on two parallel tracks from point A and point B and approached each other with speed of 36 km/hr and 44 km/hr respectively. When they crossed each other, it was found that one train has moved 40 km more than the other. The distance between A and B is :

1. 399.0 km
2. 400.0 km
3. 399.5 km
4. 400.5 km

Options :

- 68634086497. 1
- 68634086498. 2
- 68634086499. 3
- 68634086500. 4

Question Number : 25 Question Id : 68634021892 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

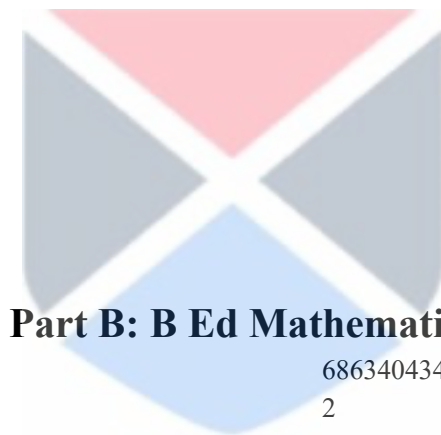
Correct Marks : 4 Wrong Marks : 1

Two trains each of length 250 m start at the same time on two parallel tracks from point A and point B and approached each other with speed of 36 km/hr and 44 km/hr respectively. When they crossed each other, it was found that one train has moved 40 km more than the other. The distance between A and B is :

- 1. 399.0 km
- 2. 400.0 km
- 3. 399.5 km
- 4. 400.5 km

Options :

- 68634086497. 1
- 68634086498. 2
- 68634086499. 3
- 68634086500. 4



Part B: B Ed Mathematics

Section Id :	686340434
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 :	686340715
Question Shuffling Allowed :	Yes
Is Section Default? :	null

Question Number : 26 Question Id : 68634021893 Question Type : MCQ Option Shuffling : No 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 base of hexadecimal system is

1. 2
2. 6
3. 8
4. 16

Options :

68634086501. 1
68634086502. 2
68634086503. 3
68634086504. 4

Question Number : 26 Question Id : 68634021893 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

हेक्साडेसिमल सिस्टम का बेस है-

1. 2
2. 6
3. 8
4. 16



Options :

68634086501. 1
68634086502. 2
68634086503. 3
68634086504. 4

Question Number : 27 Question Id : 68634021894 Question Type : MCQ Option Shuffling : No 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 EEPROM stands for:

1. Electronically Erasable Programmable Read Only Memory
2. Electrically Erasable Programmable Read Only Memory
3. Electrically Easy Programmable Read Output Memory
4. Electronically Erasable Programmable Read Output Memory

Options :

68634086505. 1
68634086506. 2
68634086507. 3

Question Number : 27 Question Id : 68634021894 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0
Correct Marks : 4 Wrong Marks : 1

ईईप्रोम का पूरा नाम है -

1. इलेक्ट्रॉनिकली इरेजेबल प्रोग्रामेबल रीड ओन्ली मेमोरी
2. इलेक्ट्रिकल इरेजेबल प्रोग्रामेबल रीड ओन्ली मेमोरी
3. इलेक्ट्रिकल इजी प्रोग्रामेबल रीड आउटपुट मेमोरी
4. इलेक्ट्रॉनिकली इरेजेबल प्रोग्रामेबल रीड आउटपुट मेमोरी

Options :

68634086505. 1
68634086506. 2
68634086507. 3
68634086508. 4

Question Number : 28 Question Id : 68634021895 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0
Correct Marks : 4 Wrong Marks : 1

MAC stands for:

1. Machine Access Control
2. Media Access Certificate
3. Media Access Control
4. Machine Access Code

Options :

68634086509. 1
68634086510. 2
68634086511. 3
68634086512. 4

Question Number : 28 Question Id : 68634021895 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0
Correct Marks : 4 Wrong Marks : 1

मैक (MAC) का पूरा नाम है -

1. मशीन एक्सेस कंट्रोल
2. मिडिया एक्सेस सर्टिफिकेट
3. मिडिया एक्सेस कंट्रोल
4. मशीन एक्सेस कोड

Options :

68634086509. 1
68634086510. 2
68634086511. 3
68634086512. 4

Question Number : 29 Question Id : 68634021896 Question Type : MCQ Option Shuffling : No 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 built-in Exceptions		LIST II Explanation	
A.	KeyboardInterrupt	I.	It is raised when the user accidentally hits the <i>Esc</i> key while executing a program due to which the normal flow of the program is interrupted.
B.	TypeError	II.	It is raised when an operator is supplied with a value of incorrect data type.
C.	IOError	III.	It is raised when the file specified in a program statement cannot be opened.
D.	ImportError	IV.	It is raised when the requested module definition is not found.

Choose the correct answer from the options given below:

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

Options :

68634086513. 1
68634086514. 2
68634086515. 3
68634086516. 4

Question Number : 29 Question Id : 68634021896 Question Type : MCQ Option Shuffling : No 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

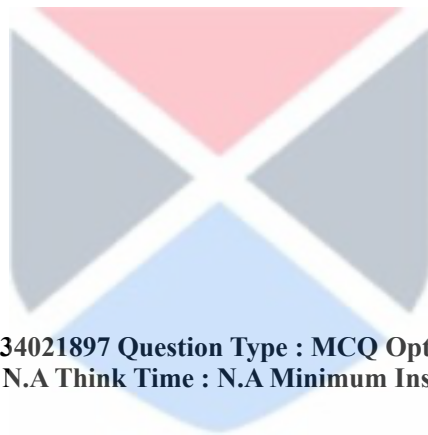
सूची I (बिल्ट-इन एक्सेप्शन के नाम)		सूची II विवरण	
A.	किबोर्डइंट्रप्ट	I.	यह उत्पन्न होता है जब यूजर अनजाने में Esc कुँजी दबाता है प्रोग्राम के संपादित करते समय, जिसके कारण प्रोग्राम का सामान्य प्रवाह बाधित होता है।
B.	टाइपएरर	II.	यह उत्पन्न होता है जब एक आपरेटर को गलत डाटा टाइप का मान दिया जाता है।
C.	आईओएरर	III.	यह उत्पन्न होता है जब फाइल विशेष रूप से एक प्रोग्राम कथन में खोला नहीं जा सकता है।
D.	इम्पोर्टएरर	IV.	यह उत्पन्न होता है जब निर्बेदित (रिकेस्टेड) माड्यूल की परिभाषा नहीं मिलती है।

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

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

Options :

68634086513. 1
68634086514. 2
68634086515. 3
68634086516. 4



Question Number : 30 Question Id : 68634021897 Question Type : MCQ Option Shuffling : No 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 about the file format extension(s):

1. .txt Only
2. .rtf Only
3. .csv Only
4. .rtf, .csv and .txt

Options :

68634086517. 1
68634086518. 2
68634086519. 3
68634086520. 4

Question Number : 30 Question Id : 68634021897 Question Type : MCQ Option Shuffling : No 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 फाइल प्रारूप एक्सटेंशन के बारे में सही है -

1. केवल .txt
2. केवल .rtf
3. केवल .csv
4. .rtf, .csv और .txt

Options :

68634086517. 1
68634086518. 2
68634086519. 3
68634086520. 4

Question Number : 31 Question Id : 68634021898 Question Type : MCQ Option Shuffling : No 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 cable used in Wired Transmission Media?

1. Twisted Pair Cable only
2. Coaxial Cable only
3. Optical Fibre only
4. Twisted Pair Cable, Optical Fibre and Coaxial Cable,

Options :

68634086521. 1
68634086522. 2
68634086523. 3
68634086524. 4

Question Number : 31 Question Id : 68634021898 Question Type : MCQ Option Shuffling : No 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 केबल, तार सहित संचरण मिडिया में उपयोग होता है?

1. केवल ट्विस्टेड पेअर केबल
2. केवल कोएक्सीयल केबल
3. केवल ऑप्टिकल फाइबर
4. ट्विस्टेड पेअर केबल, ऑप्टिकल फाइबर और कोएक्सीयल केबल

Options :

68634086521. 1

68634086522. 2
68634086523. 3
68634086524. 4

Question Number : 32 Question Id : 68634021899 Question Type : MCQ Option Shuffling : No 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: Networking devices used to connect multiple computers in different settings.

Statement II: In a communication network, each device that is a part of a network and that can receive, create, store or send data to different network routes is called a node.

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 :

68634086525. 1
68634086526. 2
68634086527. 3
68634086528. 4

Question Number : 32 Question Id : 68634021899 Question Type : MCQ Option Shuffling : No 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 : नेटवर्किंग डिवाइस का उपयोग विभिन्न तरीकों में बहुत कम्प्यूटरों को जोड़ने में किया जाता है।

कथन II : एक संचार नेटवर्क में प्रत्येक डिवाइस जो कि नेटवर्क का एक भाग है जो दूसरे नेटवर्क के रास्ते से यह डाटा प्राप्त कर सकता है, बना सकता है, संचय कर सकता है अथवा भेज सकता है, एक नोड कहलाता 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 :

68634086525. 1

68634086526. 2
68634086527. 3
68634086528. 4

Question Number : 33 Question Id : 68634021900 Question Type : MCQ Option Shuffling : No 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 operation is used to remove one element at a time from the Queue?

1. PUSH
2. DEQUEUE
3. ENQUEUE
4. POP

Options :

68634086529. 1
68634086530. 2
68634086531. 3
68634086532. 4

Question Number : 33 Question Id : 68634021900 Question Type : MCQ Option Shuffling : No 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 कौन सा आपरेशन एक समय में क्यू (Queue) से एक तत्व को हटाने में उपयोग होता है-

1. पुश
2. डीक्यू
3. इनक्यू
4. पॉप

Options :

68634086529. 1
68634086530. 2
68634086531. 3
68634086532. 4

Question Number : 34 Question Id : 68634021901 Question Type : MCQ Option Shuffling : No 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 hexadecimal digits of binary digits 1 0 1 1 1 1 0 0 0 0 1 is:

1. A D 1
2. B F 1
3. B E 1
4. A F 1

Options :

68634086533. 1
68634086534. 2
68634086535. 3
68634086536. 4

Question Number : 34 Question Id : 68634021901 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

बाइनरी संख्या 1 0 1 1 1 1 1 0 0 0 0 1 का तुल्य हेक्साडेसीमल संख्या _____ है।

1. A D 1
2. B F 1
3. B E 1
4. A F 1

Options :

68634086533. 1
68634086534. 2
68634086535. 3
68634086536. 4

Question Number : 35 Question Id : 68634021902 Question Type : MCQ Option Shuffling : No 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 newspaper contains various types of news items which is the following of the data types?

1. Unstructured Data
2. Structured Data
3. Semi Structured Data
4. Semi Structured and Structured Data

Options :

68634086537. 1
68634086538. 2
68634086539. 3

Question Number : 35 Question Id : 68634021902 Question Type : MCQ Option Shuffling : No 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 समाचार पत्र कई प्रकार के समाचार को रखता है, जो कि निम्नलिखित में से कौन सा डाटा टाइप है?

1. अनस्ट्रक्चर डाटा
2. स्ट्रक्चर डाटा
3. सेमीस्ट्रक्चर डाटा
4. सेमीस्ट्रक्चर और स्ट्रक्चर डाटा

Options :

68634086537. 1
68634086538. 2
68634086539. 3
68634086540. 4

Question Number : 36 Question Id : 68634021903 Question Type : MCQ Option Shuffling : No 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 C programming % d is used for:

1. Printing Integer Values
2. Printing Character Values
3. Printing Real Values
4. Printing Strings

Options :

68634086541. 1
68634086542. 2
68634086543. 3
68634086544. 4

Question Number : 36 Question Id : 68634021903 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0
Correct Marks : 4 Wrong Marks : 1

C प्रोग्रामिंग में % d का प्रयोग किस लिए होता है-

1. पूर्णांक मानों के प्रिंटिंग के लिए
2. कैरेक्टर (अक्षर) मानों के प्रिंटिंग के लिए
3. वास्तविक मानों के प्रिंटिंग के लिए
4. स्ट्रिंग प्रिंटिंग के लिए

Options :

- 68634086541. 1
- 68634086542. 2
- 68634086543. 3
- 68634086544. 4

Question Number : 37 Question Id : 68634021904 Question Type : MCQ Option Shuffling : No 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 the non-volatile memory?

1. ROM
2. RAM
3. DRAM
4. SRAM

Options :

- 68634086545. 1
- 68634086546. 2
- 68634086547. 3
- 68634086548. 4

Question Number : 37 Question Id : 68634021904 Question Type : MCQ Option Shuffling : No 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 नान-वोलाटाइल मेमोरी है?

1. रोम
2. रैम
3. डीरैम
4. एसरैम

Options :

- 68634086545. 1

68634086546. 2
68634086547. 3
68634086548. 4

Question Number : 38 Question Id : 68634021905 Question Type : MCQ Option Shuffling : No 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: Modem stands for Modular DEModular', is a device used for conversion between analog signals and electrical signal.

Statement II: Ethernet card, also known as Network Interface Card (NIC) is a network adapter used to set a wireless network.

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 :

68634086549. 1
68634086550. 2
68634086551. 3
68634086552. 4

Question Number : 38 Question Id : 68634021905 Question Type : MCQ Option Shuffling : No 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 : मोडेम का मतलब माड्यूलर डीमाड्यूलर है जो कि एक डिवाइस है जिसका उपयोग एनालाग सिग्नल और इलेक्ट्रिक सिग्नल के बीच रूपांतरण के लिए किया जाता है।

कथन II : इथरनेट कार्ड को नेटवर्क इन्टरफेस कार्ड (एनआईसी) के नाम से भी जाना जाता है जो कि एक नेटवर्क एडाप्टर है जिसका उपयोग ताररहित नेटवर्क बनाने के लिए 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 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 :

- 68634086549. 1
- 68634086550. 2
- 68634086551. 3
- 68634086552. 4

Question Number : 39 Question Id : 68634021906 Question Type : MCQ Option Shuffling : No 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 the Infix Notation?

- 1. $x*y+z$
- 2. $+*zxy$
- 3. $zxy*+$
- 4. $*+xyz$

Options :

- 68634086553. 1
- 68634086554. 2
- 68634086555. 3
- 68634086556. 4

Question Number : 39 Question Id : 68634021906 Question Type : MCQ Option Shuffling : No 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 कौन सा इनफिक्स नोटेशन है?

- 1. $x*y+z$
- 2. $+*zxy$
- 3. $zxy*+$
- 4. $*+xyz$

Options :

- 68634086553. 1
- 68634086554. 2
- 68634086555. 3
- 68634086556. 4

Question Number : 40 Question Id : 68634021907 Question Type : MCQ Option Shuffling : No 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 Memory Size		LIST II No. of Bits	
A.	1 PB	I.	8×10^{15}
B.	1 GB	II.	8×10^9
C.	1 TB	III.	8×10^{12}
D.	1 MB	IV.	8×10^6

Choose the correct answer from the options given below:

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

Options :

68634086557. 1
68634086558. 2
68634086559. 3
68634086560. 4

Question Number : 40 Question Id : 68634021907 Question Type : MCQ Option Shuffling : No 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 (मेमोरी आकार का नाम)		सूची II (बिट्स की संख्या)	
A.	1 PB(पीबी)	I.	8×10^{15}
B.	1 GB(जीबी)	II.	8×10^9
C.	1 TB(टीबी)	III.	8×10^{12}
D.	1 MB(एमबी)	IV.	8×10^6

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

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

Options :

68634086557. 1
68634086558. 2

68634086559. 3

68634086560. 4

Question Number : 41 Question Id : 68634021908 Question Type : MCQ Option Shuffling : No 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 not related to data types in a programming?

1. Integer
2. Char
3. Float
4. GUI

Options :

68634086561. 1

68634086562. 2

68634086563. 3

68634086564. 4

Question Number : 41 Question Id : 68634021908 Question Type : MCQ Option Shuffling : No 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 एक प्रोग्रामिंग में कौन सा डाटा प्रकार से सम्बन्धित नहीं है?

1. इंटीजर (Integer)
2. कैर (Char)
3. फ्लोट (float)
4. जीयूआई (GUI)

Options :

68634086561. 1

68634086562. 2

68634086563. 3

68634086564. 4

Question Number : 42 Question Id : 68634021909 Question Type : MCQ Option Shuffling : No 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/are a computer program?

1. Compilers only
2. Interpreters only
3. Assemblers only
4. Compilers, Interpreters and Assemblers

Options :

68634086565. 1
68634086566. 2
68634086567. 3
68634086568. 4

Question Number : 42 Question Id : 68634021909 Question Type : MCQ Option Shuffling : No 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 कम्प्यूटर प्रोग्राम है/हैं?

1. केवल कम्पाइलर
2. केवल इन्टरप्रेटर
3. केवल एसेम्बलर
4. कम्पाइलर, इन्टरप्रेटर और एसेम्बलर



Options :

68634086565. 1
68634086566. 2
68634086567. 3
68634086568. 4

Question Number : 43 Question Id : 68634021910 Question Type : MCQ Option Shuffling : No 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 (Basic Data Types in C/Python Programming)		LIST II (Descriptions)	
A.	Integer	I.	-25
B.	Real	II.	52.21
C.	Char	III.	F
D.	String	IV.	"98100198"

Choose the correct answer from the options given below:

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

Options :

68634086569. 1
68634086570. 2
68634086571. 3
68634086572. 4

Question Number : 43 Question Id : 68634021910 Question Type : MCQ Option Shuffling : No 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 (C/पाइथन प्रोग्रामिंग में मूल डाटा प्रकार)		सूची II (विवरण)	
A.	इंटीजर	I.	-25
B.	रिअल	II.	52.21
C.	कैर (कैरेक्टर)	III.	F
D.	स्ट्रिंग	IV.	"98100198"

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

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

Options :

68634086569. 1
68634086570. 2
68634086571. 3

Question Number : 44 Question Id : 68634021911 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0
Correct Marks : 4 Wrong Marks : 1

In a web browser, URLs stands for:

1. Uniform Resource Locators
2. Universal Resource Locations
3. Universal Resource Locators
4. Uniform Resource Locations

Options :

68634086573. 1
68634086574. 2
68634086575. 3
68634086576. 4

Question Number : 44 Question Id : 68634021911 Question Type : MCQ Option Shuffling : No 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 वेब ब्राउजर में URL का पूरा नाम है -

1. यूनिफार्म रिसोर्स लोकेटर्स
2. युनिवर्सल रिसोर्स लोकेशन्स
3. युनिवर्सल रिसोर्स लोकेटर्स
4. यूनिफार्म रिसोर्स लोकेशन्स

Options :

68634086573. 1
68634086574. 2
68634086575. 3
68634086576. 4

Question Number : 45 Question Id : 68634021912 Question Type : MCQ Option Shuffling : No 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 the internet, WWW stands for:

1. Word Wide Web
2. World Wide Web
3. World Wibe Web
4. Word Width Web

Options :

68634086577. 1
68634086578. 2
68634086579. 3
68634086580. 4

Question Number : 45 Question Id : 68634021912 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

इंटरनेट में डब्ल्यू डब्ल्यू डब्ल्यू का पूरा नाम है -

1. वर्ड वाइड वेब
2. वर्ल्ड वाइड वेब
3. वर्ल्ड वाइब वेब
4. वर्ड विड्थ वेब



Options :

68634086577. 1
68634086578. 2
68634086579. 3
68634086580. 4

Question Number : 46 Question Id : 68634021913 Question Type : MCQ Option Shuffling : No 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

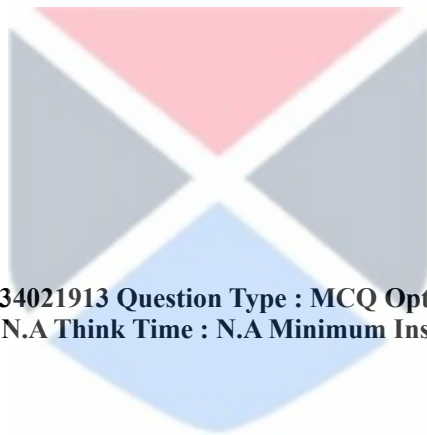
LIST I Data type		LIST II Descriptions	
A.	CHAR(n)	I.	Specifies character type data of length n where n could be any value from 0 to 255
B.	VARCHAR(n)	II.	Specifies character type data of n length where n could be any value from 0 to 255
C.	INT	III.	Specifies an integer value. Each of its value occupies 4 bytes of storage.
D.	FLOAT	IV.	Holds numbers with decimal points. Each its value occupies 4 bytes of storage.

Choose the correct answer from the options given below:

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

Options :

68634086581. 1
68634086582. 2
68634086583. 3
68634086584. 4



Question Number : 46 Question Id : 68634021913 Question Type : MCQ Option Shuffling : No 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 (डाटा के प्रकार)		सूची II (विवरण)	
A.	कैर CHAR(n)	I.	n लम्बाई के डाटा का कैरेक्टर प्रकार निर्विष्ट करता है जहाँ n का मान कुछ भी 0 से 255 तक हो सकता है।
B.	वैरकैर VARCHAR(n)	II.	लम्बाई के डाटा का कैरेक्टर प्रकार निर्विष्ट करता है जहाँ n का मान कुछ भी 0 से 255 तक हो सकता है।
C.	इंट INT	III.	एक पूर्णांक मान को निर्विष्ट करता है। इसका प्रत्येक मान 4 बाइट्स जगह से घेरता है।
D.	फ्लोट FLOAT	IV.	डिसीमल बिन्दु के साथ संख्या को रखता है। इसका प्रत्येक मान 4 बाइट्स जगह को घेरता (लेता) है।

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

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



Options :

68634086581. 1
68634086582. 2
68634086583. 3
68634086584. 4

Question Number : 47 Question Id : 68634021914 Question Type : MCQ Option Shuffling : No 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: Queue is a data structure in which insertion and deletion is done from one end only, usually referred to as TOP.

Statement II: Queue follows the principle of First In First Out (FIFO).

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 :

68634086585. 1
68634086586. 2
68634086587. 3
68634086588. 4

Question Number : 47 Question Id : 68634021914 Question Type : MCQ Option Shuffling : No 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 : क्यू एक डाटा स्ट्रक्चर है जिसमें किसी भी तत्व को रखना या हटाना केवल एक छोर से होता है, सामान्यतः इसको टॉप (TOP) से दर्शाया जाता है।

कथन II : क्यू फर्स्ट इन फर्स्ट आउट (FIFO) फीफो के सिद्धान्त का अनुसरण करता 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 :

68634086585. 1
68634086586. 2
68634086587. 3
68634086588. 4

Question Number : 48 Question Id : 68634021915 Question Type : MCQ Option Shuffling : No 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 conversion of the Denary number 107 into the binary is:

1. 11010110
2. 01101011
3. 10100110
4. 01110110

Options :

68634086589. 1
68634086590. 2
68634086591. 3
68634086592. 4

Question Number : 48 Question Id : 68634021915 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0
Correct Marks : 4 Wrong Marks : 1

डेनरी (denary) संख्या 107 का बाइनरी रूपांतरण है -

1. 11010110
2. 01101011
3. 10100110
4. 01110110

Options :

68634086589. 1
68634086590. 2
68634086591. 3
68634086592. 4

Question Number : 49 Question Id : 68634021916 Question Type : MCQ Option Shuffling : No 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 Software		LIST II Descriptions	
A.	Free Software	I.	Users have the freedom to run, copy, change or adapt free software
B.	Freeware	II.	It is a software a user can download from the internet free of charge
C.	Shareware	III.	Users are allowed to try out some software free of charge for a trial period.
D.	Firewall	IV.	Helping to prevent viruses or hackers entering the user computer (or internet network)

Choose the correct answer from the options given below:

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

Options :

68634086593. 1
68634086594. 2
68634086595. 3
68634086596. 4

Question Number : 49 Question Id : 68634021916 Question Type : MCQ Option Shuffling : No 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 (सॉफ्टवेयर)		सूची II (विवरण)	
A.	फ्री सॉफ्टवेयर	I.	यूजर के पास इसको रन करने, कॉपी करने, बदलने या फ्री सॉफ्टवेयर को लेने की स्वतंत्रता है।
B.	फ्रीवेयर	II.	यह एक सॉफ्टवेयर है, एक यूजर बिना किसी शुल्क के इंटरनेट से डाउनलोड कर सकता है।
C.	शेयरवेयर	III.	यूजर को एक परख काल के लिए कुछ सॉफ्टवेयर के प्रयोग की स्वीकृति होती है।
D.	फायरवाल	IV.	वाइरस को रोकने या हैकर्स को कम्प्यूटर में घुसने (या इंटरनेट नेटवर्क) से रोकने में मदद करता है।

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

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



Options :

68634086593. 1
68634086594. 2
68634086595. 3
68634086596. 4

Question Number : 50 Question Id : 68634021917 Question Type : MCQ Option Shuffling : No 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 advantage of Graphical User Interface (GUI) is:

1. The user does not need to learn any commands
2. It needs an operating system, such as windows, to operate, which uses up considerable memory.
3. The user is limited to the icons provided on the screen.
4. Synchronization is required.

Options :

68634086597. 1
68634086598. 2
68634086599. 3

Question Number : 50 Question Id : 68634021917 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0
Correct Marks : 4 Wrong Marks : 1

ग्राफिकल यूजर इंटरफेस (GUI) का फायदा है:

1. यूजर को कोई भी कमाण्ड को सीखने की जरूरत नहीं पड़ती है।
2. इसे एक ऑपरेटिंग सिस्टम की जरूरत पड़ती है जैसे कि विंडोज क्रियान्वन के लिए जो कि एक अधिकृत मेमोरी की जरूरत पड़ती है।
3. स्क्रीन पर यूजर को सीमित आइकन ही प्रदान की जाती है।
4. सिंक्रोनाइजेशन की जरूरत पड़ती है।

Options :

68634086597. 1
 68634086598. 2
 68634086599. 3
 68634086600. 4

Question Number : 51 Question Id : 68634021918 Question Type : MCQ Option Shuffling : No 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 derivative $\frac{dy}{dx}$ of the function $y = \sin(\cos(\log(x)))$ is,

1. $\cos(\cos(\log(x)))$
2. $\cos(\cos(\log(x))) \sin(\log(x))$
3. $-\left(\frac{1}{x}\right) \cos(\cos(\log(x))) \sin(\log(x))$
4. $-\cos\left(\sin\left(\frac{1}{x}\right)\right)$

Options :

68634086601. 1
 68634086602. 2
 68634086603. 3
 68634086604. 4

Question Number : 51 Question Id : 68634021918 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0
Correct Marks : 4 Wrong Marks : 1

फलन $y = \sin(\cos(\log(x)))$ का अवकलन $\frac{dy}{dx}$ है-

1. $\cos(\cos(\log(x)))$
2. $\cos(\cos(\log(x))) \sin(\log(x))$
3. $-\left(\frac{1}{x}\right) \cos(\cos(\log(x))) \sin(\log(x))$
4. $-\cos\left(\sin\left(\frac{1}{x}\right)\right)$

Options :

68634086601. 1
68634086602. 2
68634086603. 3
68634086604. 4

Question Number : 52 Question Id : 68634021919 Question Type : MCQ Option Shuffling : No 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 resultant vector of the cross product of the two vectors $\hat{i} + 2\hat{j} - \hat{k}$; $2\hat{i} + \hat{j} + \hat{k}$ is:

1. $\hat{i} - \hat{j} + \hat{k}$
2. $\hat{i} + \hat{j} - \hat{k}$
3. $3(\hat{i} - \hat{j} - \hat{k})$
4. $3(\hat{i} + \hat{j} - \hat{k})$

Options :

68634086605. 1
68634086606. 2
68634086607. 3
68634086608. 4

Question Number : 52 Question Id : 68634021919 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1

दो सदिशों $\hat{i} + 2\hat{j} - \hat{k}$; $2\hat{i} + \hat{j} + \hat{k}$ के सदिश गुणनफल का परिणामी सदिश है-

1. $\hat{i} - \hat{j} + \hat{k}$
2. $\hat{i} + \hat{j} - \hat{k}$
3. $3(\hat{i} - \hat{j} - \hat{k})$
4. $3(\hat{i} + \hat{j} - \hat{k})$

Options :

68634086605. 1
68634086606. 2
68634086607. 3
68634086608. 4

Question Number : 53 Question Id : 68634021920 Question Type : MCQ Option Shuffling : No 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 area bounded by the curve $y = \sin(x)$ between $x = 0$ to 2π is,

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

Options :

68634086609. 1
68634086610. 2
68634086611. 3
68634086612. 4

Question Number : 53 Question Id : 68634021920 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

$x = 0$ से 2π के बीच परिबद्ध वक्र $y = \sin(x)$ का क्षेत्रफल है-

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

Options :

68634086609. 1
68634086610. 2
68634086611. 3
68634086612. 4

Question Number : 54 Question Id : 68634021921 Question Type : MCQ Option Shuffling : No 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 value of $\int \frac{(\log(x))^2}{x} dx$ is

1. $\frac{(\log(x))^3}{3} + C$

2. $\log(x) + C$

3. C

4. $\frac{-1}{3x^3} + C$

Options :

68634086613. 1
68634086614. 2
68634086615. 3
68634086616. 4



Question Number : 54 Question Id : 68634021921 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0
Correct Marks : 4 Wrong Marks : 1

समाकलन $\int \frac{(\log(x))^2}{x} dx$ का मान है -

1. $\frac{(\log(x))^3}{3} + C$

2. $\log(x) + C$

3. C

4. $\frac{-1}{3x^3} + C$

Options :

68634086613. 1
68634086614. 2

68634086615. 3

68634086616. 4

Question Number : 55 Question Id : 68634021922 Question Type : MCQ Option Shuffling : No 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 term which is independent of n in the expansion of $\left(7x^2 + \frac{1}{x}\right)^6$ is

1. 3rd

2. 4th

3. 5th

4. 6th

Options :

68634086617. 1

68634086618. 2

68634086619. 3

68634086620. 4

Question Number : 55 Question Id : 68634021922 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0
Correct Marks : 4 Wrong Marks : 1

$\left(7x^2 + \frac{1}{x}\right)^6$ के विस्तार में कौन सा पद n से स्वतंत्र है-

1. तीसरा

2. चौथा

3. पाँचवा

4. छठा

Options :

68634086617. 1

68634086618. 2

68634086619. 3

68634086620. 4

Question Number : 56 Question Id : 68634021923 Question Type : MCQ Option Shuffling : No 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 distance between two straight lines $2x + 3y = 5$, $2x + 3y = 10$ is,

1. $\frac{5}{\sqrt{11}}$

2. $\frac{3}{\sqrt{11}}$

3. $\frac{5}{\sqrt{13}}$

4. $\frac{3}{\sqrt{13}}$

Options :

68634086621. 1
68634086622. 2
68634086623. 3
68634086624. 4

Question Number : 56 Question Id : 68634021923 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

दो सरल रेखाओं $2x + 3y = 5$, $2x + 3y = 10$ के बीच की दूरी है -

1. $\frac{5}{\sqrt{11}}$

2. $\frac{3}{\sqrt{11}}$

3. $\frac{5}{\sqrt{13}}$

4. $\frac{3}{\sqrt{13}}$

Options :

68634086621. 1
68634086622. 2
68634086623. 3
68634086624. 4

Question Number : 57 Question Id : 68634021924 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

Consider the trigonometric equation $\tan(x) - \tan(y) = 0$, where x and y are not odd multiples of $\frac{\pi}{2}$. Then the solution of this equation is

1. $x = n\pi + (-1)^n y$

2. $x = y$

3. $x = n\pi + y$

4. $x = n\pi - y$

Options :

68634086625. 1

68634086626. 2

68634086627. 3

68634086628. 4

Question Number : 57 Question Id : 68634021924 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

त्रिकोणमितीय समीकरण $\tan(x) - \tan(y) = 0$ पर विचार कीजिए, जहाँ x और y , $\frac{\pi}{2}$ के विषम गुणक नहीं है। तो इस समीकरण का हल है-

1. $x = n\pi + (-1)^n y$

2. $x = y$

3. $x = n\pi + y$

4. $x = n\pi - y$

Options :

68634086625. 1

68634086626. 2

68634086627. 3

68634086628. 4

Question Number : 58 Question Id : 68634021925 Question Type : MCQ Option Shuffling : No 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 regression analysis independent variable is also called as:

1. Explained
2. Regressor
3. Regressed
4. Estimator

Options :

68634086629. 1
68634086630. 2
68634086631. 3
68634086632. 4

Question Number : 58 Question Id : 68634021925 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

समाश्रयण विश्लेषण (एनालिसिस) में स्वतंत्र चर को इससे भी जाना जाता है-

1. व्याख्या
2. समाश्रयी
3. समाश्रेय
4. आकलक



Options :

68634086629. 1
68634086630. 2
68634086631. 3
68634086632. 4

Question Number : 59 Question Id : 68634021926 Question Type : MCQ Option Shuffling : No 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 angle between a pair of lines given by

$$\vec{r} = 3\hat{i} + 2\hat{j} - 2\hat{k} + \lambda_1 (\hat{i} + 2\hat{j} + 2\hat{k}), \vec{r} = 5\hat{i} - 2\hat{j} + \lambda_2 (3\hat{i} + 2\hat{j} + 6\hat{k}) \text{ is:}$$

1. $\cos^{-1}\left(\frac{19}{21}\right)$

2. $\sin^{-1}\left(\frac{19}{21}\right)$

3. $\cos^{-1}\left(\frac{17}{21}\right)$

4. $\tan^{-1}\left(\frac{19}{21}\right)$

Options :

68634086633. 1

68634086634. 2

68634086635. 3

68634086636. 4

Question Number : 59 Question Id : 68634021926 Question Type : MCQ Option Shuffling : No 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 रेखा युग्मों के बीच का कोण है -

$$\vec{r} = 3\hat{i} + 2\hat{j} - 2\hat{k} + \lambda_1 (\hat{i} + 2\hat{j} + 2\hat{k}), \vec{r} = 5\hat{i} - 2\hat{j} + \lambda_2 (3\hat{i} + 2\hat{j} + 6\hat{k})$$

1. $\cos^{-1}\left(\frac{19}{21}\right)$

2. $\sin^{-1}\left(\frac{19}{21}\right)$

3. $\cos^{-1}\left(\frac{17}{21}\right)$

4. $\tan^{-1}\left(\frac{19}{21}\right)$

Options :

68634086633. 1

68634086634. 2

68634086635. 3

68634086636. 4

Question Number : 60 Question Id : 68634021927 Question Type : MCQ Option Shuffling : No 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: Line of regression of y on x is the line which gives the best estimate for the value of y for any specified value of x .

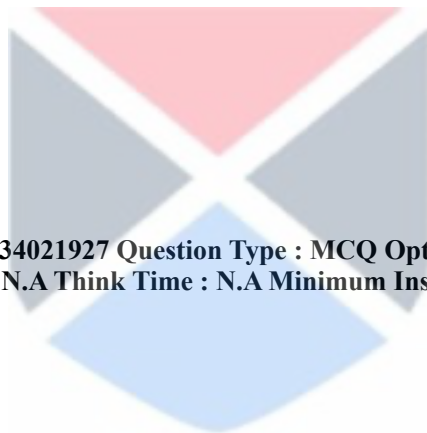
Statement II: Line of regression of x on y is the line which gives the best estimate for the value of x for any specified value of y .

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 :

68634086637. 1
68634086638. 2
68634086639. 3
68634086640. 4



Question Number : 60 Question Id : 68634021927 Question Type : MCQ Option Shuffling : No 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 : x पर y का समाश्रयण रेखा वह रेखा है जो कि किसी भी x के निर्दिष्ट मान के लिए y के मान का सबसे अच्छा आकलन देती है।

कथन II : y पर x का समाश्रयण रेखा वह रेखा है जो कि किसी भी y के निर्दिष्ट मान के लिए x के मान का सबसे अच्छा आकलन देती 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 :

68634086637. 1
68634086638. 2
68634086639. 3

68634086640. 4

Question Number : 61 Question Id : 68634021928 Question Type : MCQ Option Shuffling : No 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 the set of those elements which are common in both A and B ?

1. $A \cap B$

2. $A \cup B$

3. $A - B$

4. $A \cap B'$

Options :

68634086641. 1

68634086642. 2

68634086643. 3

68634086644. 4

Question Number : 61 Question Id : 68634021928 Question Type : MCQ Option Shuffling : No 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 कौन सा उन अवयवों का समुच्चय है जो कि A और B दोनों में उभयनिष्ठ है -

1. $A \cap B$

2. $A \cup B$

3. $A - B$

4. $A \cap B'$

Options :

68634086641. 1

68634086642. 2

68634086643. 3

68634086644. 4

Question Number : 62 Question Id : 68634021929 Question Type : MCQ Option Shuffling : No 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 committee of two persons is selected from two men and two women. What is the probability that the committee will have at least one man?

1. $\frac{1}{3}$

2. $\frac{2}{3}$

3. $\frac{1}{6}$

4. $\frac{1}{2}$

Options :

68634086645. 1

68634086646. 2

68634086647. 3

68634086648. 4

Question Number : 62 Question Id : 68634021929 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

दो पुरुषों और दो महिलाओं में से 2 लोगों की एक समिति चुनी गई। समिति में कम से कम एक पुरुष के होने की प्रायिकता क्या है?

1. $\frac{1}{3}$

2. $\frac{2}{3}$

3. $\frac{1}{6}$

4. $\frac{1}{2}$

Options :

68634086645. 1

68634086646. 2

68634086647. 3

68634086648. 4

Question Number : 63 Question Id : 68634021930 Question Type : MCQ Option Shuffling : No 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 value of $\frac{1}{\log_2 N} + \frac{1}{\log_3 N} + \frac{1}{\log_4 N} + \dots + \frac{1}{\log_{15} N}$ is:

1. $\frac{1}{\log_{15^2} N}$
2. $\log_N (15!)$
3. $\frac{1}{\log_N (15!)}$
4. $\log_N (15)^2$

Options :

68634086649. 1
68634086650. 2
68634086651. 3
68634086652. 4

Question Number : 63 Question Id : 68634021930 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

$\frac{1}{\log_2 N} + \frac{1}{\log_3 N} + \frac{1}{\log_4 N} + \dots + \frac{1}{\log_{15} N}$ का मान है -

1. $\frac{1}{\log_{15^2} N}$
2. $\log_N (15!)$
3. $\frac{1}{\log_N (15!)}$
4. $\log_N (15)^2$

Options :

68634086649. 1
68634086650. 2
68634086651. 3
68634086652. 4

Question Number : 64 Question Id : 68634021931 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

Ten cards numbered 1 to 10 are placed in a box and one card is drawn randomly. If it is known that the number on drawn card is more than 2. The probability that it is an odd number is:

1. $\frac{1}{2}$

2. $\frac{3}{4}$

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

4. $\frac{7}{8}$

Options :

68634086653. 1

68634086654. 2

68634086655. 3

68634086656. 4

Question Number : 64 Question Id : 68634021931 Question Type : MCQ Option Shuffling : No 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 बॉक्स में 1 से 10 नम्बर के दस पत्तों को रखा गया है और एक पत्ता यादृच्छिक रूप से निकाला जाता है। अगर यह पता है कि निकाला गया पत्ता 2 से अधिक नम्बर का है, तो उस पत्ते के विषम संख्या होने की क्या प्रायिकता होगी?

1. $\frac{1}{2}$

2. $\frac{3}{4}$

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

4. $\frac{7}{8}$

Options :

68634086653. 1

68634086654. 2

68634086655. 3

68634086656. 4

Question Number : 65 Question Id : 68634021932 Question Type : MCQ Option Shuffling : No 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 mode of the following distribution:

7, 4, 3, 5, 6, 3, 3, 2, 4, 3, 4, 3, 3, 4, 4, 2, 3

1. 2

2. 3

3. 4

4. 5

Options :

68634086657. 1

68634086658. 2

68634086659. 3

68634086660. 4

Question Number : 65 Question Id : 68634021932 Question Type : MCQ Option Shuffling : No 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 बंटन का बहुलक क्या होगा?

7, 4, 3, 5, 6, 3, 3, 2, 4, 3, 4, 3, 3, 4, 4, 2, 3

1. 2

2. 3

3. 4

4. 5

Options :

68634086657. 1

68634086658. 2

68634086659. 3

68634086660. 4

Question Number : 66 Question Id : 68634021933 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

Standard Error of the sampling distribution of a statistic is given by:

1. Median

2. Mode

3. Correlation coefficient

4. Standard Deviation

Options :

- 68634086661. 1
- 68634086662. 2
- 68634086663. 3
- 68634086664. 4

Question Number : 66 Question Id : 68634021933 Question Type : MCQ Option Shuffling : No 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 सांख्यिकी के नमूनों के बंटन की मानक त्रुटि है -

- 1. माधिका से
- 2. बहुलक से
- 3. सहसंबंध गुणांक से
- 4. मानक विचलन से

Options :

- 68634086661. 1
- 68634086662. 2
- 68634086663. 3
- 68634086664. 4

Question Number : 67 Question Id : 68634021934 Question Type : MCQ Option Shuffling : No 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 rate of activity of a person y with age t is given by $(1+t)\frac{dy}{dt} = e^{-y} - 1$. For the initial condition $y = 1$ at $t = 0$, the solution is given by,

- 1. $y = \ln\left(\frac{1}{t+1}\right)$
- 2. $y = \ln\left(\frac{e}{t+1}\right)$
- 3. $y = \ln\left(\frac{e+t}{t+1}\right)$
- 4. $y = \ln\left(\frac{e-t}{t+1}\right)$

Options :

- 68634086665. 1
- 68634086666. 2
- 68634086667. 3
- 68634086668. 4

Question Number : 67 Question Id : 68634021934 Question Type : MCQ Option Shuffling : No 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 व्यक्ति के कार्य करने की दर t उम्र के साथ $(1+t)\frac{dy}{dt} = e^{-y} - 1$ दिया गया है। प्रारम्भिक शर्त $y=1, t=0$ पर इसका हल निम्नलिखित में से क्या होगा?

1. $y = \ln\left(\frac{1}{t+1}\right)$

2. $y = \ln\left(\frac{e}{t+1}\right)$

3. $y = \ln\left(\frac{e+t}{t+1}\right)$

4. $y = \ln\left(\frac{e-t}{t+1}\right)$

Options :

68634086665. 1

68634086666. 2

68634086667. 3

68634086668. 4

Question Number : 68 Question Id : 68634021935 Question Type : MCQ Option Shuffling : No 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 area bounded by two parabolas $y = x^2, x = y^2$ is,

1. 0 unit

2. $1/2$ unit

3. $1/3$ unit

4. $1/4$ unit

Options :

68634086669. 1

68634086670. 2

68634086671. 3

68634086672. 4

Question Number : 68 Question Id : 68634021935 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

दो परवलयों $y = x^2$, $x = y^2$ से घिरे हुए क्षेत्र का क्षेत्रफल है -

1. 0 इकाई
2. $1/2$ इकाई
3. $1/3$ इकाई
4. $1/4$ इकाई

Options :

68634086669. 1
68634086670. 2
68634086671. 3
68634086672. 4

Question Number : 69 Question Id : 68634021936 Question Type : MCQ Option Shuffling : No 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 distance of a point whose position vector is $\vec{u}$ from the plane $\vec{r} \cdot \hat{n} = d$ is,

1. $|d|$
2. $|\vec{u} \cdot \hat{n}|$
3. $|d - \vec{r} \cdot \hat{n}|$
4. $|d - \vec{u} \cdot \hat{n}|$

Options :

68634086673. 1
68634086674. 2
68634086675. 3
68634086676. 4

Question Number : 69 Question Id : 68634021936 Question Type : MCQ Option Shuffling : No 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 बिन्दु से दूरी क्या होगी जिसकी स्थिति सदिश एक समतल $\vec{r} \cdot \hat{n} = d$ से $\vec{u}$ है:

1. $|d|$
2. $|\vec{u} \cdot \hat{n}|$
3. $|d - \vec{r} \cdot \hat{n}|$
4. $|d - \vec{u} \cdot \hat{n}|$

Options :

68634086673. 1
68634086674. 2
68634086675. 3
68634086676. 4

Question Number : 70 Question Id : 68634021937 Question Type : MCQ Option Shuffling : No 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 integral $\int_1^3 x^3 \log(x) dx$ equals:

1. $\frac{3^4}{4} [\log(3)]$
2. $\frac{3^4}{4} \left[\log(3) - \frac{1}{4} \right]$
3. $\frac{3^4}{4} [\log(3)] + \frac{1}{16}$
4. $\frac{3^4}{4} \left[\log(3) - \frac{1}{4} \right] + \frac{1}{16}$

Options :

68634086677. 1
68634086678. 2
68634086679. 3
68634086680. 4

Question Number : 70 Question Id : 68634021937 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0
Correct Marks : 4 Wrong Marks : 1

समाकलन $\int_1^3 x^3 \log(x) dx$ बराबर है-

1. $\frac{3^4}{4} [\log(3)]$

2. $\frac{3^4}{4} \left[\log(3) - \frac{1}{4} \right]$

3. $\frac{3^4}{4} [\log(3)] + \frac{1}{16}$

4. $\frac{3^4}{4} \left[\log(3) - \frac{1}{4} \right] + \frac{1}{16}$

Options :

68634086677. 1

68634086678. 2

68634086679. 3

68634086680. 4

Question Number : 71 Question Id : 68634021938 Question Type : MCQ Option Shuffling : No 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 derivative $\frac{dy}{dx}$ of the function $y = x^x$ is

1. xx^x

2. $x^x \log(x)$

3. $x e^x$

4. $[1 + \log(x)] x^x$

Options :

68634086681. 1

68634086682. 2

68634086683. 3

68634086684. 4

Question Number : 71 Question Id : 68634021938 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

फलन $y = x^x$ का अवकलन $\frac{dy}{dx}$ है -

1. xx^x
2. $x^x \log(x)$
3. $x e^x$
4. $[1 + \log(x)]x^x$

Options :

68634086681. 1
68634086682. 2
68634086683. 3
68634086684. 4

Question Number : 72 Question Id : 68634021939 Question Type : MCQ Option Shuffling : No 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 any positive integer m , $7^m - 3^m$ is divisible by

1. 4
2. 7
3. 3
4. 10

Options :

68634086685. 1
68634086686. 2
68634086687. 3
68634086688. 4

Question Number : 72 Question Id : 68634021939 Question Type : MCQ Option Shuffling : No 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 भी धनात्मक पूर्णांक m के लिए, $7^m - 3^m$ निम्नलिखित में से किससे भाज्य है -

1. 4
2. 7
3. 3
4. 10

Options :

68634086685. 1

68634086686. 2
68634086687. 3
68634086688. 4

Question Number : 73 Question Id : 68634021940 Question Type : MCQ Option Shuffling : No 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 the parabola which is symmetric about the y -axis and has its vertex at origin and passes through the point $(1, -1)$ is

1. $x^2 + y = 0$

2. $x^2 - y = 0$

3. $x^2 = 0$

4. $y^2 = 0$

Options :

68634086689. 1
68634086690. 2
68634086691. 3
68634086692. 4

Question Number : 73 Question Id : 68634021940 Question Type : MCQ Option Shuffling : No 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 परवलय का समीकरण जो कि y -अक्ष के सममित है, उसका शीर्ष मूलबिंदु पर है और बिन्दु $(1, -1)$ से गुजरती है -

1. $x^2 + y = 0$

2. $x^2 - y = 0$

3. $x^2 = 0$

4. $y^2 = 0$

Options :

68634086689. 1
68634086690. 2
68634086691. 3
68634086692. 4

Question Number : 74 Question Id : 68634021941 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

If the sets X and Y are mutually exclusive, then $P(X \cap Y)$ is

1. 0
2. $\frac{1}{10}$
3. $\frac{1}{2}$
4. 1

Options :

68634086693. 1
68634086694. 2
68634086695. 3
68634086696. 4

Question Number : 74 Question Id : 68634021941 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

अगर दो समुच्चय X और Y परस्पर अपवर्जी है तो $P(X \cap Y)$ है -

1. 0
2. $\frac{1}{10}$
3. $\frac{1}{2}$
4. 1

Options :

68634086693. 1
68634086694. 2
68634086695. 3
68634086696. 4

Question Number : 75 Question Id : 68634021942 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

Three cards are drawn successively, without replacement from a pack of 52 well shuffled cards. The probability that first two cards are kings and third card drawn is an ace is

1. $\frac{1}{13}$

2. $\frac{3}{13^2}$

3. $\left(\frac{1}{13}\right)^3$

4. $\frac{2}{5525}$

Options :

68634086697. 1

68634086698. 2

68634086699. 3

68634086700. 4

Question Number : 75 Question Id : 68634021942 Question Type : MCQ Option Shuffling : No 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 52 पत्तों वाले अच्छे तरीकों से फेंटे गए पत्तों से बिना बदले 3 पत्ते निकाले जाते हैं। पहले दो पत्ते राजा और तीसरे पत्ते की एक इक्का होने की क्या प्रायिकता होगी?

1. $\frac{1}{13}$

2. $\frac{3}{13^2}$

3. $\left(\frac{1}{13}\right)^3$

4. $\frac{2}{5525}$

Options :

68634086697. 1

68634086698. 2

68634086699. 3

68634086700. 4

Question Number : 76 Question Id : 68634021943 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

One card is drawn from a well shuffled deck of 52 cards. If each outcome is equally likely, The probability that the card will not be a king is:

1. $\frac{1}{4}$

2. $\frac{12}{13}$

3. $\frac{1}{2}$

4. $\frac{3}{4}$

Options :

68634086701. 1

68634086702. 2

68634086703. 3

68634086704. 4

Question Number : 76 Question Id : 68634021943 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

52 पत्तों को अच्छे तरीके से फेंटे गए पैक से एक पत्ता निकाला जाता है, अगर सभी के समान आने की सम्भावना है तो उस पत्ते के राजा ना आने की क्या प्रायिकता होगी?

1. $\frac{1}{4}$

2. $\frac{12}{13}$

3. $\frac{1}{2}$

4. $\frac{3}{4}$

Options :

68634086701. 1

68634086702. 2

68634086703. 3

68634086704. 4

Question Number : 77 Question Id : 68634021944 Question Type : MCQ Option Shuffling : No 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 arithmetic mean and standard deviation of a series of 20 items were calculated by a student as 20 cm and 5 cm, respectively. But while calculating them an item 13 was misread as 30. The correct standard deviation is :

1. 4.53
2. 4.66
3. 4.95
4. 4.88

Options :

68634086705. 1
68634086706. 2
68634086707. 3
68634086708. 4

Question Number : 77 Question Id : 68634021944 Question Type : MCQ Option Shuffling : No 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 छात्र द्वारा 20 संख्याओं की एक श्रेणी का समांतर माध्य और मानक विचलन क्रमशः 20 सेमी. और 5 सेमी. है। लेकिन गणना करते समय एक संख्या 13 को गलती से 30 पढ़ लिया गया। तो सही मानक विचलन है -

1. 4.53
2. 4.66
3. 4.95
4. 4.88

Options :

68634086705. 1
68634086706. 2
68634086707. 3
68634086708. 4

Question Number : 78 Question Id : 68634021945 Question Type : MCQ Option Shuffling : No 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 $\bar{x}$ is the mean of the variate values $x_1, x_2, \dots, x_N$. If a constant value A is subtracted from each variate value, then the resulting new mean is:

1. $\bar{x} - A$
2. $\bar{x} - NA$
3. $\bar{x}A$
4. $\bar{x}$

Options :

68634086709. 1
68634086710. 2
68634086711. 3
68634086712. 4

Question Number : 78 Question Id : 68634021945 Question Type : MCQ Option Shuffling : No 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 कि विचर मानों $x_1, x_2, \dots, x_N$ का माध्य $\bar{x}$ है। अगर एक अचर मान A सभी विचर मानों से घटाया जाता है तो नया परिणामी माध्य क्या होगा?

1. $\bar{x} - A$
2. $\bar{x} - NA$
3. $\bar{x}A$
4. $\bar{x}$

Options :

68634086709. 1
68634086710. 2
68634086711. 3
68634086712. 4

Question Number : 79 Question Id : 68634021946 Question Type : MCQ Option Shuffling : No 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 $P(A \cap B) = P(A).P(B)$, then event of A and B are:

1. Independent
2. Dependent
3. Null sets
4. Mutually exclusive

Options :

68634086713. 1
68634086714. 2
68634086715. 3
68634086716. 4

Question Number : 79 Question Id : 68634021946 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

अगर $P(A \cap B) = P(A).P(B)$ है, तो घटनाएँ A और B हैं -

1. स्वतंत्र
2. निर्भर/आश्रित
3. रिक्त समुच्चय
4. परस्पर अपवर्जी



Options :

68634086713. 1
68634086714. 2
68634086715. 3
68634086716. 4

Question Number : 80 Question Id : 68634021947 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

Given below are two statements:

Statement I: The Geometric mean of a set of n observations is the n th root of their product.

Statement II: If $X_1, X_2, X_3 \dots X_n$ are the given n observations, then their G.M. is given by

$$\sqrt[n]{(X_1)(X_2)(X_3) \dots (X_n)}$$

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 :

68634086717. 1
68634086718. 2
68634086719. 3
68634086720. 4

Question Number : 80 Question Id : 68634021947 Question Type : MCQ Option Shuffling : No 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 : n अवलोकन वाले एक समुच्चय का गुणोत्तर माध्य उनके गुणन के n^{th} मूल होता है।

कथन II : अगर $X_1, X_2, X_3, \dots, X_n$, n अवलोकन दिए गए हैं तो उनका गुणोत्तर माध्य $\sqrt[n]{(X_1)(X_2)(X_3) \dots (X_n)}$ होगा।

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

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

Options :

68634086717. 1
68634086718. 2
68634086719. 3
68634086720. 4

Question Number : 81 Question Id : 68634021948 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

Consider the linear function from Z to Z : $f = \{(0, -5), (1, 0), (2, 5), (-1, -10)\}$. Then the function $f(x)$ is:

1. $f(x) = 5x - 5$
2. $f(x) = 5x$
3. $f(x) = x - 5$
4. $f(x) = -5$

Options :

68634086721. 1
68634086722. 2
68634086723. 3
68634086724. 4

Question Number : 81 Question Id : 68634021948 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

रेखीय फलन Z से Z : $f = \{(0, -5), (1, 0), (2, 5), (-1, -10)\}$. पर विचार कीजिए। तो फलन $f(x)$ है-

1. $f(x) = 5x - 5$
2. $f(x) = 5x$
3. $f(x) = x - 5$
4. $f(x) = -5$

Options :

68634086721. 1
68634086722. 2
68634086723. 3
68634086724. 4

Question Number : 82 Question Id : 68634021949 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

Any square matrix A can be expressed as:

1. The product of a symmetric and a skew-symmetric matrices.
2. The division of a symmetric matrix by a skew-symmetric matrix.
3. The sum of a symmetric and a skew-symmetric matrices.
4. The subtraction of a symmetric from a skew-symmetric matrix.

Options :

- 68634086725. 1
- 68634086726. 2
- 68634086727. 3
- 68634086728. 4

Question Number : 82 Question Id : 68634021949 Question Type : MCQ Option Shuffling : No 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 वर्ग आव्यूह A को दर्शाया जा सकता है :

1. एक सममित आव्यूह और एक विषम सममित आव्यूह के गुणन से।
2. एक सममित आव्यूह का एक विषम आव्यूह के भाग से।
3. एक सममित आव्यूह और एक विषम आव्यूह के योग से।
4. एक सममित आव्यूह से विषम सममित आव्यूह के घटाने से।

Options :

- 68634086725. 1
- 68634086726. 2
- 68634086727. 3
- 68634086728. 4

Question Number : 83 Question Id : 68634021950 Question Type : MCQ Option Shuffling : No 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 integral $\int_{-1}^2 |x^3 - x| dx$ is equal to

1. $\frac{1}{4}$
2. $\frac{5}{4}$
3. $\frac{9}{4}$
4. $\frac{11}{4}$

Options :

- 68634086729. 1
- 68634086730. 2
- 68634086731. 3
- 68634086732. 4

Question Number : 83 Question Id : 68634021950 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

समाकलन $\int_{-1}^2 |x^3 - x| dx$ बराबर है -

1. $\frac{1}{4}$

2. $\frac{5}{4}$

3. $\frac{9}{4}$

4. $\frac{11}{4}$

Options :

68634086729. 1

68634086730. 2

68634086731. 3

68634086732. 4

Question Number : 84 Question Id : 68634021951 Question Type : MCQ Option Shuffling : No 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 the hyperbola whose foci are $(0, \pm 12)$ and the length of the latus rectum is 36 is

1. $12y^2 - x^2 = 108$

2. $3y^2 - x^2 = 108$

3. $y^2 - 12x^2 = 1$

4. $12y^2 - 3x^2 = 1$

Options :

68634086733. 1

68634086734. 2

68634086735. 3

68634086736. 4

Question Number : 84 Question Id : 68634021951 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

अतिपरवलय का समीकरण क्या होगा, जिसकी नाभि (फोक़ी) $(0, \pm 12)$ है और नाभिलंब की लम्बाई 36 है?

1. $12y^2 - x^2 = 108$

2. $3y^2 - x^2 = 108$

3. $y^2 - 12x^2 = 1$

4. $12y^2 - 3x^2 = 1$

Options :

68634086733. 1

68634086734. 2

68634086735. 3

68634086736. 4

Question Number : 85 Question Id : 68634021952 Question Type : MCQ Option Shuffling : No 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 direction cosines of x-axis, y-axis and z-axis, respectively are:

1. $\left(\frac{\pi}{2}, 0, 0\right), \left(0, \frac{\pi}{2}, 0\right), \left(0, 0, \frac{\pi}{2}\right)$

2. $(\pi, 0, 0), (0, \pi, 0), (0, 0, \pi)$

3. $\left(0, \frac{\pi}{2}, \frac{\pi}{2}\right), \left(\frac{\pi}{2}, 0, \frac{\pi}{2}\right), \left(\frac{\pi}{2}, \frac{\pi}{2}, 0\right)$

4. $(1, 0, 0), (0, 1, 0), (0, 0, 1)$

Options :

68634086737. 1

68634086738. 2

68634086739. 3

68634086740. 4

Question Number : 85 Question Id : 68634021952 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

x -अक्ष, y -अक्ष और z -अक्ष के दिक्-कोसाइन क्रमश हैं-

1. $\left(\frac{\pi}{2}, 0, 0\right), \left(0, \frac{\pi}{2}, 0\right), \left(0, 0, \frac{\pi}{2}\right)$
2. $(\pi, 0, 0), (0, \pi, 0), (0, 0, \pi)$
3. $\left(0, \frac{\pi}{2}, \frac{\pi}{2}\right), \left(\frac{\pi}{2}, 0, \frac{\pi}{2}\right), \left(\frac{\pi}{2}, \frac{\pi}{2}, 0\right)$
4. $(1, 0, 0), (0, 1, 0), (0, 0, 1)$

Options :

68634086737. 1
68634086738. 2
68634086739. 3
68634086740. 4

Question Number : 86 Question Id : 68634021953 Question Type : MCQ Option Shuffling : No 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 regression analysis confined to the study of only two variables at a time, is called as:

1. Simple Regression
2. Difficult Regression
3. Di-Regression
4. Multiple Regression

Options :

68634086741. 1
68634086742. 2
68634086743. 3
68634086744. 4

Question Number : 86 Question Id : 68634021953 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

समाश्रयण विश्लेषण एक समय में केवल दो चरों के अध्ययन के लिए ही निहित है, कहलाता है -

1. साधारण समाश्रयण
2. जटिल/कठिन समाश्रयण
3. डी-समाश्रयण
4. बहु (मल्टीपल) - समाश्रयण

Options :

68634086741. 1
68634086742. 2
68634086743. 3
68634086744. 4

Question Number : 87 Question Id : 68634021954 Question Type : MCQ Option Shuffling : No 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 security guard of a hospital allows enter to 5 persons from a room for a checkup from a group of patients which has 10% Covid infected patients. The probability that there is at least one person Covid infected patients, is -

1. $\frac{9^5}{10^5}$

2. $1 - \frac{9^5}{10^5}$

3. $\frac{9^{10}}{10^{10}}$

4. $1 - \frac{9^{10}}{10^{10}}$

Options :

68634086745. 1
68634086746. 2
68634086747. 3
68634086748. 4

Question Number : 87 Question Id : 68634021954 Question Type : MCQ Option Shuffling : No 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 सुरक्षाकर्मी एक अस्पताल में एक कक्ष से चेक-अप (जाँच) के लिए अस्पताल के भीड़ से 5 लोगों की ही अनुमति देता है जो कि 10% कोविड से संक्रमित हैं। कम से कम एक लोग का कोविड से संक्रमित होने की प्रायिकता क्या होगी?

1. $\frac{9^5}{10^5}$

2. $1 - \frac{9^5}{10^5}$

3. $\frac{9^{10}}{10^{10}}$

4. $1 - \frac{9^{10}}{10^{10}}$

Options :

68634086745. 1
68634086746. 2
68634086747. 3
68634086748. 4

Question Number : 88 Question Id : 68634021955 Question Type : MCQ Option Shuffling : No 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 the linear regression equation:

1. $y = a + bx$

2. $y = ax^2$

3. $a^2 + x^2 = y^2$

4. $ax = y^2$

Options :

68634086749. 1
68634086750. 2
68634086751. 3
68634086752. 4

Question Number : 88 Question Id : 68634021955 Question Type : MCQ Option Shuffling : No 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 एक रेखीय समाश्रयण समीकरण है -

1. $y = a + bx$

2. $y = ax^2$

3. $a^2 + x^2 = y^2$

4. $ax = y^2$

Options :

68634086749. 1

68634086750. 2

68634086751. 3

68634086752. 4

Question Number : 89 Question Id : 68634021956 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

Which of the following is a correct relation if and only if all the n observations are equal?

1. Arithmetic Mean $\geq$ Geometric Mean

2. Arithmetic Mean $\leq$ Geometric Mean

3. Arithmetic Mean = Geometric Mean

4. Arithmetic Mean $>$ Geometric Mean

Options :

68634086753. 1

68634086754. 2

68634086755. 3

68634086756. 4

Question Number : 89 Question Id : 68634021956 Question Type : MCQ Option Shuffling : No 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 सम्बन्ध है यदि और केवल यदि सभी n आकलन बराबर है -

1. समांतर माध्य $\geq$ गुणोत्तर माध्य

2. समांतर माध्य $\leq$ गुणोत्तर माध्य

3. समांतर माध्य = गुणोत्तर माध्य

4. समांतर माध्य $>$ गुणोत्तर माध्य

Options :

68634086753. 1

68634086754. 2
68634086755. 3
68634086756. 4

Question Number : 90 Question Id : 68634021957 Question Type : MCQ Option Shuffling : No 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 X is a square matrix of order $N \times N$, then for any constant c , $|cX|$ is equal to,

1. $c|X|$
2. $c^2|X|$
3. $c^N|X|$
4. $C^{N^2}|X|$

Options :

68634086757. 1
68634086758. 2
68634086759. 3
68634086760. 4

Question Number : 90 Question Id : 68634021957 Question Type : MCQ Option Shuffling : No 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 X एक $N \times N$ कोटि का वर्ग आव्यूह है, तो किसी भी अचर c के लिए, $|cX|$ बराबर है -

1. $c|X|$
2. $c^2|X|$
3. $c^N|X|$
4. $C^{N^2}|X|$

Options :

68634086757. 1
68634086758. 2
68634086759. 3
68634086760. 4

Question Number : 91 Question Id : 68634021958 Question Type : MCQ Option Shuffling : No 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 function $F(x) = |x|$ at $x = 0$ is

1. Continuous
2. Discontinuous
3. Undefined
4. Differentiable

Options :

68634086761. 1
68634086762. 2
68634086763. 3
68634086764. 4

Question Number : 91 Question Id : 68634021958 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

$x = 0$ पर फलन $F(x) = |x|$ है -

1. संतत
2. असंतत
3. परिभाषित नहीं
4. अवकलनीय



Options :

68634086761. 1
68634086762. 2
68634086763. 3
68634086764. 4

Question Number : 92 Question Id : 68634021959 Question Type : MCQ Option Shuffling : No 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 X and Y are invertible matrices of same order then

1. $(XY)^{-1} = X^{-1}Y^{-1}$
2. $(XY)^{-1} = Y^{-1}X^{-1}$
3. $(XY)^{-1} = X^{-1}Y$
4. $(XY)^{-1} = XY^{-1}$

Options :

68634086765. 1

68634086766. 2
68634086767. 3
68634086768. 4

Question Number : 92 Question Id : 68634021959 Question Type : MCQ Option Shuffling : No 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 X और Y समान कोटि के व्युत्क्रमणीय आव्यूह है तो -

1. $(XY)^{-1} = X^{-1}Y^{-1}$

2. $(XY)^{-1} = Y^{-1}X^{-1}$

3. $(XY)^{-1} = X^{-1}Y$

4. $(XY)^{-1} = XY^{-1}$

Options :

68634086765. 1
68634086766. 2
68634086767. 3
68634086768. 4

Question Number : 93 Question Id : 68634021960 Question Type : MCQ Option Shuffling : No 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 sum $1^2 + 2^2 + \dots + M^2$, $M \in N$ is

1. Equal to $\frac{M^3}{3}$

2. $< \frac{M^3}{3}$

3. $> \frac{M^3}{3}$

4. Equal to $\frac{4M^3}{3}$

Options :

68634086769. 1
68634086770. 2
68634086771. 3
68634086772. 4

Question Number : 93 Question Id : 68634021960 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

$1^2 + 2^2 + \dots + M^2$ का योग क्या है, जहाँ $M \in \mathbb{N}$.

1. $\frac{M^3}{3}$ के बराबर

2. $< \frac{M^3}{3}$

3. $> \frac{M^3}{3}$

4. $\frac{4M^3}{3}$ के बराबर

Options :

68634086769. 1

68634086770. 2

68634086771. 3

68634086772. 4

Question Number : 94 Question Id : 68634021961 Question Type : MCQ Option Shuffling : No 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 polar form of the complex number $z = \frac{i-1}{\cos\left[\frac{\pi}{3}\right] + i \sin\left[\frac{\pi}{3}\right]}$ is,

1. $\sqrt{2} \left(\cos\left[\frac{\pi}{3}\right] + i \sin\left[\frac{\pi}{3}\right] \right)$

2. $\sqrt{3} \left(\cos\left[\frac{\pi}{12}\right] + i \sin\left[\frac{\pi}{12}\right] \right)$

3. $\sqrt{2} \left(\cos\left[\frac{5\pi}{3}\right] + i \sin\left[\frac{5\pi}{3}\right] \right)$

4. $\sqrt{2} \left(\cos\left[\frac{5\pi}{12}\right] + i \sin\left[\frac{5\pi}{12}\right] \right)$

Options :

68634086773. 1

68634086774. 2

68634086775. 3

68634086776. 4

Question Number : 94 Question Id : 68634021961 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

सम्मिश्र संख्या $z = \frac{i-1}{\cos\left[\frac{\pi}{3}\right] + i \sin\left[\frac{\pi}{3}\right]}$ का ध्रुवीय रूप है -

1. $\sqrt{2} \left(\cos\left[\frac{\pi}{3}\right] + i \sin\left[\frac{\pi}{3}\right] \right)$
2. $\sqrt{3} \left(\cos\left[\frac{\pi}{12}\right] + i \sin\left[\frac{\pi}{12}\right] \right)$
3. $\sqrt{2} \left(\cos\left[\frac{5\pi}{3}\right] + i \sin\left[\frac{5\pi}{3}\right] \right)$
4. $\sqrt{2} \left(\cos\left[\frac{5\pi}{12}\right] + i \sin\left[\frac{5\pi}{12}\right] \right)$

Options :

68634086773. 1
68634086774. 2
68634086775. 3
68634086776. 4

Question Number : 95 Question Id : 68634021962 Question Type : MCQ Option Shuffling : No 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 box contains 9 balls of which 4 are Golden, 3 are Silver and 2 are Steel. The balls are similar in shape and size. A ball is drawn at random from the box. The probability that it will not be a silver ball:

1. $\frac{4}{9}$
2. $\frac{2}{9}$
3. $\frac{1}{3}$
4. $\frac{2}{3}$

Options :

68634086777. 1
68634086778. 2
68634086779. 3
68634086780. 4

Question Number : 95 Question Id : 68634021962 Question Type : MCQ Option Shuffling : No 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 बॉक्स में 9 गेंदे हैं जिसमें 4 सुनहरे, 3 चाँदी और 2 स्टील के हैं। गेंदे आकार और आकृति में एकरूप हैं। एक गेंद बॉक्स से यादृच्छिक रूप से निकाला जाता है। गेंद के चाँदी के ना होने की प्रायिकता क्या होगी?

1. $\frac{4}{9}$

2. $\frac{2}{9}$

3. $\frac{1}{3}$

4. $\frac{2}{3}$

Options :

- 68634086777. 1
- 68634086778. 2
- 68634086779. 3
- 68634086780. 4

Question Number : 96 Question Id : 68634021963 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0
Correct Marks : 4 Wrong Marks : 1

The average marks of students in a group of 6 students is 119. The individual marks of five of them are 115, 109, 129, 117, 114. The marks of sixth student is

1. 130

2. 120

3. 115

4. 125

Options :

- 68634086781. 1
- 68634086782. 2
- 68634086783. 3
- 68634086784. 4

Question Number : 96 Question Id : 68634021963 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0
Correct Marks : 4 Wrong Marks : 1

6 छात्रों के एक समुह में छात्रों के औसत अंक 119 है। 5 छात्रों के व्यक्तिगत अंक क्रमशः 115, 109, 129, 117, 114 हैं। तो छठे छात्र का क्या अंक होगा?

1. 130
2. 120
3. 115
4. 125

Options :

68634086781. 1
68634086782. 2
68634086783. 3
68634086784. 4

Question Number : 97 Question Id : 68634021964 Question Type : MCQ Option Shuffling : No 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: Arithmetic mean of a given set of observations is their sum divided by the no. of observations.

Statement II: If in a series the sum of 5 number is 17, then the Arithmetic Mean of it will be 3.4 ± 0.5 .

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 :

68634086785. 1
68634086786. 2
68634086787. 3
68634086788. 4

Question Number : 97 Question Id : 68634021964 Question Type : MCQ Option Shuffling : No 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 : एक दिए गए समुच्चय के पर्यवेक्षण का समांतर माध्य, पर्यवेक्षण की संख्या द्वारा उनका योग विभाजित है।

कथन II : अगर एक श्रेणी में 5 संख्याओं का योग 17 है तो इनका समांतर माध्य 3.4 ± 0.5 होगा।

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

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

Options :

68634086785. 1
68634086786. 2
68634086787. 3
68634086788. 4

Question Number : 98 Question Id : 68634021965 Question Type : MCQ Option Shuffling : No 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 standard deviation for the following distribution:

Class	30-40	40-50	50-60	60-70	70-80	80-90	90-100
Frequency	3	7	12	15	8	3	2

1. 12.89
2. 13.98
3. 14.18
4. 15.38

Options :

68634086789. 1
68634086790. 2
68634086791. 3
68634086792. 4

Question Number : 98 Question Id : 68634021965 Question Type : MCQ Option Shuffling : No 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 बंटन के लिए मानक विचलन ज्ञात कीजिए -

कक्षा	30-40	40-50	50-60	60-70	70-80	80-90	90-100
आवृत्ति	3	7	12	15	8	3	2

1. 12.89
2. 13.98
3. 14.18
4. 15.38

Options :

68634086789. 1
68634086790. 2
68634086791. 3
68634086792. 4

Question Number : 99 Question Id : 68634021966 Question Type : MCQ Option Shuffling : No 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 Mean deviation about the Mean for the following data:

6, 7, 10, 12, 13, 4, 8, 12

1. 2.75
2. 4.00
3. 3.25
4. 2.50

Options :

68634086793. 1
68634086794. 2
68634086795. 3
68634086796. 4

Question Number : 99 Question Id : 68634021966 Question Type : MCQ Option Shuffling : No 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 दिए गए आँकड़ों के लिए माध्य के सापेक्ष माध्यविचलन ज्ञात कीजिए।

6, 7, 10, 12, 13, 4, 8, 12

1. 2.75

2. 4.00

3. 3.25

4. 2.50

Options :

68634086793. 1

68634086794. 2

68634086795. 3

68634086796. 4

Question Number : 100 Question Id : 68634021967 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1

Consider the runs scored by two batsmen in their last ten matches as follows:

Batsman A: 30, 91, 0, 64, 42, 80, 30, 5, 117, 71

Batsman B: 53, 46, 48, 50, 53, 53, 58, 60, 57, 52

The Median of the runs scored by Batsman A and Batsman B respectively

1. 52, 42

2. 53, 50

3. 53, 80

4. 53, 53

Options :

68634086797. 1

68634086798. 2

68634086799. 3

68634086800. 4

Question Number : 100 Question Id : 68634021967 Question Type : MCQ Option Shuffling : No 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 दो बल्लेबाजों द्वारा उनके अन्तिम 10 पारियों के रनों पर विचार कीजिए।

बल्लेबाज A: 30, 91, 0, 64, 42, 80, 30, 5, 117, 71

बल्लेबाज B: 53, 46, 48, 50, 53, 53, 58, 60, 57, 52

बल्लेबाज A और बल्लेबाज B द्वारा बनाए गए रनों की माधिका क्रमशः है-

1. 52, 42

2. 53, 50

3. 53, 80

4. 53, 53

Options :

68634086797. 1

68634086798. 2

68634086799. 3

68634086800. 4

