

National Testing Agency

Question Paper Name :	Forensic Science Eng 24th June 2023 Shift 2
Subject Name :	Forensic Science Eng
Creation Date :	2023-06-24 20:22:19
Duration :	120
Total Marks :	400
Display Marks:	Yes

Forensic Science

Group Number :	1
Group Id :	920906228
Group Maximum Duration :	0
Group Minimum Duration :	120
Show Attended Group? :	No
Edit Attended Group? :	No
Break time :	0
Group Marks :	400
Is this Group for Examiner? :	No
Examiner permission :	Cant View
Show Progress Bar? :	No

Part A

Section Id :	920906455
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 :	920906734
Question Shuffling Allowed :	No
Is Section Default? :	null

Question Id : 92090622974 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

According to Cole, the present state, carries with it the marks of its perversion by capitalism. Our present feeble attempts, Cole explains in his book Social Theory, to inaugurate democracy in politics are frustrated by the existence of a system approaching slavery in industry. Not poverty of the masses, but slavery is the curse of capitalism. Capitalism and democracy go together. Cole was opposed to the democratic system of government as it worked in actual practice. He attacked the system of territorial representation. A person who represents his locality cannot be expected to decide questions relating to the relationship between the producers and the consumers. Hence, Cole advocated the reorganization of society on a functional basis. When society is organized as a federation of functional organizations, each one democratically controlled, there will be no place for the present state organization. In a guild society the functions, which an all-inclusive association may properly be taken over by co-ordinating bodies more in harmony with the principles of freedom and function which will actuate that society. Cole writes : "It is impossible to represent human beings as person or centres of consciousness; it is quite possible to represent, though with an inevitable elements of distortion which must always be recognized, as much of human beings as they themselves put into associated effort for a specific purpose."

Sub questions

Question Number : 1 Question Id : 92090622975 Question Type : MCQ Option Shuffling : No 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 : According to Colo, the present state, carries with it the marks of its perversion by capitalism.

Statement II : A person who represents his locality can be expected to decide questions relating to the relationship between the producers and the consumers.

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 :

- 92090690801. 1
- 92090690802. 2
- 92090690803. 3
- 92090690804. 4

Question Number : 2 Question Id : 92090622976 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

Antonym of the term 'feeble' is:

- | | |
|------------|-------------|
| (1) stupid | (2) foolish |
| (3) Great | (4) Strong |

Options :

- 92090690805. 1
- 92090690806. 2
- 92090690807. 3
- 92090690808. 4

Question Number : 3 Question Id : 92090622977 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

Find out the meaning of the term 'actuate' from the options given below:

- (1) Participating in a particular sphere
- (2) The ability to make good judgements
- (3) Motivate to act in a particular way
- (4) Telling

Options :

- 92090690809. 1
- 92090690810. 2
- 92090690811. 3
- 92090690812. 4

Question Number : 4 Question Id : 92090622978 Question Type : MCQ Option Shuffling : No 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 Cole, not poverty of the masses, but _____ is the curse of capitalism.

- (1) negligence
- (2) slavery
- (3) education
- (4) bad health

Options :

- 92090690813. 1
- 92090690814. 2
- 92090690815. 3
- 92090690816. 4

Question Number : 5 Question Id : 92090622979 Question Type : MCQ Option Shuffling : No 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 word substitution:

Give a misleading account or impression of:

- (1) Distort
- (2) Distress
- (3) Distrain
- (4) Distinct

Options :

- 92090690817. 1
- 92090690818. 2
- 92090690819. 3
- 92090690820. 4

Question Id : 92090622974 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

According to Cole, the present state, carries with it the marks of its perversion by capitalism. Our present feeble attempts, Cole explains in his book Social Theory, to inaugurate democracy in politics are frustrated by the existence of a system approaching slavery in industry. Not poverty of the masses, but slavery is the curse of capitalism. Capitalism and democracy go together. Cole was opposed to the democratic system of government as it worked in actual practice. He attacked the system of territorial representation. A person who represents his locality cannot be expected to decide questions relating to the relationship between the producers and the consumers. Hence, Cole advocated the reorganization of society on a functional basis. When society is organized as a federation of functional organizations, each one democratically controlled, there will be no place for the present state organization. In a guild society the functions, which an all-inclusive association may properly be taken over by co-ordinating bodies more in harmony with the principles of freedom and function which will actuate that society. Cole writes : "It is impossible to represent human beings as person or centres of consciousness; it is quite possible to represent, though with an inevitable elements of distortion which must always be recognized, as much of human beings as they themselves put into associated effort for a specific purpose."

Sub questions

Question Number : 1 Question Id : 92090622975 Question Type : MCQ Option Shuffling : No 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 : According to Colo, the present state, carries with it the marks of its perversion by capitalism.

Statement II : A person who represents his locality can be expected to decide questions relating to the relationship between the producers and the consumers.

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 :

- 92090690801. 1
- 92090690802. 2
- 92090690803. 3
- 92090690804. 4

Question Number : 2 Question Id : 92090622976 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

Antonym of the term 'feeble' is:

- | | |
|------------|-------------|
| (1) stupid | (2) foolish |
| (3) Great | (4) Strong |

Options :

- 92090690805. 1
- 92090690806. 2
- 92090690807. 3
- 92090690808. 4

Question Number : 3 Question Id : 92090622977 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

Find out the meaning of the term 'actuate' from the options given below:

- (1) Participating in a particular sphere
- (2) The ability to make good judgements
- (3) Motivate to act in a particular way
- (4) Telling

Options :

- 92090690809. 1
- 92090690810. 2
- 92090690811. 3
- 92090690812. 4

Question Number : 4 Question Id : 92090622978 Question Type : MCQ Option Shuffling : No 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 Cole, not poverty of the masses, but _____ is the curse of capitalism.

- (1) negligence
- (2) slavery
- (3) education
- (4) bad health

Options :

- 92090690813. 1
- 92090690814. 2
- 92090690815. 3
- 92090690816. 4

Question Number : 5 Question Id : 92090622979 Question Type : MCQ Option Shuffling : No 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 word substitution:

Give a misleading account or impression of:

- (1) Distort
- (2) Distress
- (3) Distrain
- (4) Distinct

Options :

- 92090690817. 1
- 92090690818. 2
- 92090690819. 3
- 92090690820. 4

Sub-Section Number : 2
Sub-Section Id : 920906735
Question Shuffling Allowed : Yes
Is Section Default? : null

Question Number : 6 Question Id : 92090622980 Question Type : MCQ Option Shuffling : No 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 correct passive voice for the sentence given below:

Neeraj Chopra won gold medal in the Tokyo Olymoic 2020.

- (1) Gold medal won by Neeraj Chopra in the Tokyo Olympic 2020.
- (2) Gold medal hed been won by Neeraj Chopra in the Tokyo Olympic 2020.
- (3) Gold medal was won by Neeraj Chopra in the Tokyo Olympic 2020.
- (4) Gold medal has been won by Neeraj Chopra in the Tokyo Olympic 2020.

Options :

92090690821. 1
92090690822. 2
92090690823. 3
92090690824. 4

Question Number : 6 Question Id : 92090622980 Question Type : MCQ Option Shuffling : No 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 correct passive voice for the sentence given below:

Neeraj Chopra won gold medal in the Tokyo Olymoic 2020.

- (1) Gold medal won by Neeraj Chopra in the Tokyo Olympic 2020.
- (2) Gold medal hed been won by Neeraj Chopra in the Tokyo Olympic 2020.
- (3) Gold medal was won by Neeraj Chopra in the Tokyo Olympic 2020.
- (4) Gold medal has been won by Neeraj Chopra in the Tokyo Olympic 2020.

Options :

92090690821. 1
92090690822. 2
92090690823. 3
92090690824. 4

Question Number : 7 Question Id : 92090622981 Question Type : MCQ Option Shuffling : No 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 correct speech for the sentence given below. Riya said,

“How can I do such a foolish mistake”?

- (1) Riya told how could she do such a foolish mistake.
- (2) Riya aske how can she do such a foolish mistake.
- (3) Riya suggerted how she can do such a foolish mistake.
- (4) Riya thought how she could do such a foolish mistake.

Options :

- 92090690825. 1
- 92090690826. 2
- 92090690827. 3
- 92090690828. 4

Question Number : 7 Question Id : 92090622981 Question Type : MCQ Option Shuffling : No 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 correct speech for the sentence given below. Riya said,

“How can I do such a foolish mistake”?

- (1) Riya told how could she do such a foolish mistake.
- (2) Riya aske how can she do such a foolish mistake.
- (3) Riya suggerted how she can do such a foolish mistake.
- (4) Riya thought how she could do such a foolish mistake.

Options :

- 92090690825. 1
- 92090690826. 2
- 92090690827. 3
- 92090690828. 4

Question Number : 8 Question Id : 92090622982 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

Choose the correct order of P, Q, R, S, to create a meaningful sentence:

A sequence of utterances

P: anticipate the future ones

Q: subjects or voice that responds

R: is a dialogue of speaking

S: to former utterances and

(1) PQRS

(2) RQSP

(3) QSPR

(4) QPSR

Options :

92090690829. 1

92090690830. 2

92090690831. 3

92090690832. 4

Question Number : 8 Question Id : 92090622982 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

Choose the correct order of P, Q, R, S, to create a meaningful sentence:

A sequence of utterances

P: anticipate the future ones

Q: subjects or voice that responds

R: is a dialogue of speaking

S: to former utterances and

(1) PQRS

(2) RQSP

(3) QSPR

(4) QPSR

Options :

92090690829. 1

92090690830. 2

92090690831. 3

92090690832. 4

Question Number : 9 Question Id : 92090622983 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

Choose the correct sentence:

- (1) You haven't seen the film, haven't you?
- (2) You haven't seen the film, did you?
- (3) You haven't seen the film, have you?
- (4) You haven't seen the film, do you?

Options :

- 92090690833. 1
- 92090690834. 2
- 92090690835. 3
- 92090690836. 4

Question Number : 9 Question Id : 92090622983 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

Choose the correct sentence:

- (1) You haven't seen the film, haven't you?
- (2) You haven't seen the film, did you?
- (3) You haven't seen the film, have you?
- (4) You haven't seen the film, do you?

Options :

- 92090690833. 1
- 92090690834. 2
- 92090690835. 3
- 92090690836. 4

Question Number : 10 Question Id : 92090622984 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

Find out which part of the following sentence has an error.

- (1) Arushi is weak in Maths
- (2) and do not understand the
- (3) calculations
- (4) though her mother explains her repeatedly.

Options :

92090690837. 1
92090690838. 2
92090690839. 3
92090690840. 4

Question Number : 10 Question Id : 92090622984 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

Find out which part of the following sentence has an error.

- (1) Arushi is weak in Maths
- (2) and do not understand the
- (3) calculations
- (4) though her mother explains her repeatedly.

Options :

92090690837. 1
92090690838. 2
92090690839. 3
92090690840. 4

Question Number : 11 Question Id : 92090622985 Question Type : MCQ Option Shuffling : No 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 correct combination of the member of "QUAD".

- (A) India
- (B) Vietman
- (C) Japan
- (D) Australia
- (E) USA
- (F) South Korea

Choose the correct answer from the options given below :

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

Options :

- 92090690841. 1
- 92090690842. 2
- 92090690843. 3
- 92090690844. 4

Question Number : 11 Question Id : 92090622985 Question Type : MCQ Option Shuffling : No 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 correct combination of the member of "QUAD".

- (A) India
- (B) Vietman
- (C) Japan
- (D) Australia
- (E) USA
- (F) South Korea

Choose the correct answer from the options given below :

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

Options :

- 92090690841. 1
- 92090690842. 2
- 92090690843. 3
- 92090690844. 4

Question Number : 12 Question Id : 92090622986 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

Shiv Kumar Sharma who passes away recently was a:

- | | |
|------------------|--------------------|
| (1) Flute player | (2) Santoor player |
| (3) Tabla player | (4) Esraj player |

Options :

- 92090690845. 1

92090690846. 2

92090690847. 3

92090690848. 4

Question Number : 12 Question Id : 92090622986 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

Shiv Kumar Sharma who passes away recently was a:

- | | |
|------------------|--------------------|
| (1) Flute player | (2) Santoor player |
| (3) Tabla player | (4) Esraj player |

Options :

92090690845. 1

92090690846. 2

92090690847. 3

92090690848. 4

Question Number : 13 Question Id : 92090622987 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

In which Indian state Gangaur Festival is predominantly celebrated:

- | | |
|-----------------|---------------|
| (1) West Bangal | (2) Punjab |
| (3) Rajasthan | (4) Karnataka |

Options :

92090690849. 1

92090690850. 2

92090690851. 3

92090690852. 4

Question Number : 13 Question Id : 92090622987 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

In which Indian state Gangaur Festival is predominantly celebrated:

- | | |
|-----------------|---------------|
| (1) West Bangal | (2) Punjab |
| (3) Rajasthan | (4) Karnataka |

Options :

92090690849. 1
92090690850. 2
92090690851. 3
92090690852. 4

Question Number : 14 Question Id : 92090622988 Question Type : MCQ Option Shuffling : No 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 Union Ministry is associated with the Citizenship (Amendment) Act, 2019?

- (1) Ministry of External Affairs
- (2) Ministry of Defence
- (3) Ministry of Housing and Urban Affairs
- (4) Ministry of Home Affairs

Options :

92090690853. 1
92090690854. 2
92090690855. 3
92090690856. 4

Question Number : 14 Question Id : 92090622988 Question Type : MCQ Option Shuffling : No 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 Union Ministry is associated with the Citizenship (Amendment) Act, 2019?

- (1) Ministry of External Affairs
- (2) Ministry of Defence
- (3) Ministry of Housing and Urban Affairs
- (4) Ministry of Home Affairs

Options :

92090690853. 1
92090690854. 2
92090690855. 3
92090690856. 4

Question Number : 15 Question Id : 92090622989 Question Type : MCQ Option Shuffling : No 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 Election Commission of India (ECI) has decided to freeze the election symbol of which of the following party?

- | | |
|-------------------------|-------------------------------|
| (1) Lok Janshakti Party | (2) Dravida Munnetra Kazhagam |
| (3) Aam Aadmi Party | (4) Apna Dal |

Options :

92090690857. 1
92090690858. 2
92090690859. 3
92090690860. 4

Question Number : 15 Question Id : 92090622989 Question Type : MCQ Option Shuffling : No 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 Election Commission of India (ECI) has decided to freeze the election symbol of which of the following party?

- | | |
|-------------------------|-------------------------------|
| (1) Lok Janshakti Party | (2) Dravida Munnetra Kazhagam |
| (3) Aam Aadmi Party | (4) Apna Dal |

Options :

92090690857. 1
92090690858. 2
92090690859. 3
92090690860. 4

Question Number : 16 Question Id : 92090622990 Question Type : MCQ Option Shuffling : No 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 Vineeta from the left side of the row is 26th and the position of Vineeta from the right side of the row is 23rd. Find the total number of students in the row?

- | | |
|--------|--------|
| (1) 46 | (2) 47 |
| (3) 48 | (4) 49 |

Options :

92090690861. 1
92090690862. 2
92090690863. 3

Question Number : 16 Question Id : 92090622990 Question Type : MCQ Option Shuffling : No 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 Vineeta from the left side of the row is 26th and the position of Vineeta from the right side of the row is 23rd. Find the total number of students in the row?

- | | |
|--------|--------|
| (1) 46 | (2) 47 |
| (3) 48 | (4) 49 |

Options :

- 92090690861. 1
- 92090690862. 2
- 92090690863. 3
- 92090690864. 4

Question Number : 17 Question Id : 92090622991 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

After interchanging the first and last digits in each of the following numbers, identify the correct sequence of number in the ascending order.

- (A) 146
- (B) 453
- (C) 678
- (D) 254
- (E) 942

Choose the correct answer from the options given below :

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

Options :

- 92090690865. 1
- 92090690866. 2
- 92090690867. 3

Question Number : 17 Question Id : 92090622991 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

After interchanging the first and last digits in each of the following numbers, identify the correct sequence of number in the ascending order.

- (A) 146
- (B) 453
- (C) 678
- (D) 254
- (E) 942

Choose the correct answer from the options given below :

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

Options :

- 92090690865. 1
- 92090690866. 2
- 92090690867. 3
- 92090690868. 4

Question Number : 18 Question Id : 92090622992 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

Five friends Amit, Bipin, Chandan, Dinesh and Edwin are sitting on a beach. Amit is sitting next to Bipin, Chandan is sitting next to Dinesh is not sitting with Edwin who is on the left end of the beach. Chandan is on the second position from the right. Amit is to the right of Bipin and Edwin. Amit and Chandan are sitting together. Who is in the centre?

- | | |
|------------|-------------|
| (1) Dinesh | (2) Chandan |
| (3) Amit | (4) Bipin |

Options :

- 92090690869. 1

92090690870. 2

92090690871. 3

92090690872. 4

Question Number : 18 Question Id : 92090622992 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

Five friends Amit, Bipin, Chandan, Dinesh and Edwin are sitting on a beach. Amit is sitting next to Bipin, Chandan is sitting next to Dinesh is not sitting with Edwin who is on the left end of the beach. Chandan is on the second position from the right. Amit is to the right of Bipin and Edwin. Amit and Chandan are sitting together. Who is in the centre?

(1) Dinesh

(2) Chandan

(3) Amit

(4) Bipin

Options :

92090690869. 1

92090690870. 2

92090690871. 3

92090690872. 4

Question Number : 19 Question Id : 92090622993 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

Pointing to a photograph of a boy, Nita said, "He is the son of the only daughter of my mother". How is Nita related to the boy?

(1) Sister

(2) Niece

(3) Mother

(4) Aunt

Options :

92090690873. 1

92090690874. 2

92090690875. 3

92090690876. 4

Question Number : 19 Question Id : 92090622993 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

Pointing to a photograph of a boy, Nita said, "He is the son of the only daughter of my mother". How is Nita related to the boy?

- | | |
|------------|-----------|
| (1) Sister | (2) Niece |
| (3) Mother | (4) Aunt |

Options :

92090690873. 1
92090690874. 2
92090690875. 3
92090690876. 4

Question Number : 20 Question Id : 92090622994 Question Type : MCQ Option Shuffling : No 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: 1368, 684, 114, 38 Which one of the following number should come next in the series?

- | | |
|--------|--------|
| (1) 16 | (2) 17 |
| (3) 18 | (4) 19 |

Options :

92090690877. 1
92090690878. 2
92090690879. 3
92090690880. 4

Question Number : 20 Question Id : 92090622994 Question Type : MCQ Option Shuffling : No 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: 1368, 684, 114, 38 Which one of the following number should come next in the series?

- | | |
|--------|--------|
| (1) 16 | (2) 17 |
| (3) 18 | (4) 19 |

Options :

92090690877. 1
92090690878. 2
92090690879. 3
92090690880. 4

Question Number : 21 Question Id : 92090622995 Question Type : MCQ Option Shuffling : No 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 man purchased 36 pens in a certain amount and sold 27 pens in the same amount. The percentage of gain is:

(1) $16\frac{2}{3}\%$

(2) $33\frac{1}{3}\%$

(3) $12\frac{1}{2}\%$

(4) $66\frac{1}{3}\%$

Options :

92090690881. 1

92090690882. 2

92090690883. 3

92090690884. 4

Question Number : 21 Question Id : 92090622995 Question Type : MCQ Option Shuffling : No 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 man purchased 36 pens in a certain amount and sold 27 pens in the same amount. The percentage of gain is:

(1) $16\frac{2}{3}\%$

(2) $33\frac{1}{3}\%$

(3) $12\frac{1}{2}\%$

(4) $66\frac{1}{3}\%$

Options :

92090690881. 1

92090690882. 2

92090690883. 3

92090690884. 4

Question Number : 22 Question Id : 92090622996 Question Type : MCQ Option Shuffling : No 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 can do a work in 20 days, B can do in 30 days and C can do in 60 days. If A is helped by B and C every third day. The number of days they will take to completed the work is:

- | | |
|-------------|-------------|
| (1) 15 days | (2) 12 days |
| (3) 18 days | (4) 9 days |

Options :

- 92090690885. 1
- 92090690886. 2
- 92090690887. 3
- 92090690888. 4

Question Number : 22 Question Id : 92090622996 Question Type : MCQ Option Shuffling : No 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 can do a work in 20 days, B can do in 30 days and C can do in 60 days. If A is helped by B and C every third day. The number of days they will take to competed the work is:

- | | |
|-------------|-------------|
| (1) 15 days | (2) 12 days |
| (3) 18 days | (4) 9 days |

Options :

- 92090690885. 1
- 92090690886. 2
- 92090690887. 3
- 92090690888. 4

Question Number : 23 Question Id : 92090622997 Question Type : MCQ Option Shuffling : No 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 different ways in which the letters in the word 'N A Z I B A B A D' can be arranged is:

- | | |
|------------|-----------|
| (1) 362880 | (2) 30240 |
| (3) 60480 | (4) 90720 |

Options :

- 92090690889. 1
- 92090690890. 2
- 92090690891. 3

Question Number : 23 Question Id : 92090622997 Question Type : MCQ Option Shuffling : No 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 different ways in which the letters in the word 'N A Z I B A B A D' can be arranged is:

- | | |
|------------|-----------|
| (1) 362880 | (2) 30240 |
| (3) 60480 | (4) 90720 |

Options :

- 92090690889. 1
- 92090690890. 2
- 92090690891. 3
- 92090690892. 4

Question Number : 24 Question Id : 92090622998 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

Difference of $\frac{2}{3}$ of 63 and $\frac{1}{3}$ of 93 is:

- | | |
|--------|--------|
| (1) 12 | (2) 31 |
| (3) 11 | (4) 21 |

Options :

- 92090690893. 1
- 92090690894. 2
- 92090690895. 3
- 92090690896. 4

Question Number : 24 Question Id : 92090622998 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

Difference of $\frac{2}{3}$ of 63 and $\frac{1}{3}$ of 93 is:

- | | |
|--------|--------|
| (1) 12 | (2) 31 |
| (3) 11 | (4) 21 |

Options :

- 92090690893. 1

92090690894. 2

92090690895. 3

92090690896. 4

Question Number : 25 Question Id : 92090622999 Question Type : MCQ Option Shuffling : No 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 :

In a test of class X one third of listed students appeared in test got grade B, one fourth got B⁺, one sixth got grade B⁻ and one eighth failed i.e.grade C. Everyone else got grade A.

List I

List II

- | | |
|--|---------|
| (A) Minimum number of student get grade A | (I) 6 |
| (B) Minimum number of student get grade B ⁺ | (II) 4 |
| (C) Minimum number of student get grade B | (III) 3 |
| (D) Minimum number of student get grade B ⁻ | (IV) 8 |

Choose the correct answer from the options given below:

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

Options :

92090690897. 1

92090690898. 2

92090690899. 3

92090690900. 4

Question Number : 25 Question Id : 92090622999 Question Type : MCQ Option Shuffling : No 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 :

In a test of class X one third of listed students appeared in test got grade B, one fourth got B⁺, one sixth got grade B⁻ and one eighth failed i.e. grade C. Everyone else got grade A.

List I	List II
(A) Minimum number of student get grade A	(I) 6
(B) Minimum number of student get grade B ⁺	(II) 4
(C) Minimum number of student get grade B	(III) 3
(D) Minimum number of student get grade B ⁻	(IV) 8

Choose the correct answer from the options given below:

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

Options :

92090690897. 1
92090690898. 2
92090690899. 3
92090690900. 4

Part B: Forensic Science

Section Id :	920906456
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 :	920906736
Question Shuffling Allowed :	Yes
Is Section Default? :	null

Question Number : 26 Question Id : 92090623000 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum

Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

Characteristics belonging to a particular group is termed as :

- (1) Objective characteristics
- (2) Personal characteristics
- (3) Individual characteristics
- (4) Class characteristics

Options :

- 92090690901. 1
- 92090690902. 2
- 92090690903. 3
- 92090690904. 4

Question Number : 26 Question Id : 92090623000 Question Type : MCQ Option Shuffling : No 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 विशिष्ट समूह से संबंधित विशेषताओं को कहा जाता है :-

- (1) उद्देश्य विशेषताएं
- (2) निजी विशेषताएं
- (3) वैयक्तिक विशेषताएं
- (4) वर्ग विशेषताएं

Options :

- 92090690901. 1
- 92090690902. 2
- 92090690903. 3
- 92090690904. 4

Question Number : 27 Question Id : 92090623001 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

Ted Bundy case is related to which type of the forensic evidence

- (1) Foot marks
- (2) Bite marks
- (3) Tread marks
- (4) Fibres

Options :

- 92090690905. 1
- 92090690906. 2
- 92090690907. 3

Question Number : 27 Question Id : 92090623001 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

टेड बंडी केस फॉरेंसिक साक्ष्य के कौन-से प्रकार से संबंधित है?

- | | |
|---------------------|-----------------------|
| (1) पाद (फूट) चिह्न | (2) कटान (बाइट) चिह्न |
| (3) पदन्यास चिह्न | (4) रेशे |

Options :

- 92090690905. 1
- 92090690906. 2
- 92090690907. 3
- 92090690908. 4

Question Number : 28 Question Id : 92090623002 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

Application of scientific methods in criminal investigation was suggested by an Austrian Judge whose name was —————?

- | | |
|------------------|----------------|
| (1) W. Nuremberg | (2) Hans gross |
| (3) Vaucetich | (4) P.L. Kirk |

Options :

- 92090690909. 1
- 92090690910. 2
- 92090690911. 3
- 92090690912. 4

Question Number : 28 Question Id : 92090623002 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

अपराधिक अनुसंधान में वैज्ञानिक विधियों के प्रयोग करने का सुझाव एक आस्ट्रियाई जज द्वारा दिया गया था जिसका नाम _____ था।

- | | |
|-------------------------|------------------|
| (1) डब्ल्यू न्युरेमबर्ग | (2) हंस ग्रॉस |
| (3) वाउसेटिच | (4) पी.एल. किर्क |

Options :

92090690909. 1
92090690910. 2
92090690911. 3
92090690912. 4

Question Number : 29 Question Id : 92090623003 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

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

Assertion (A) : The application of physical properties of blood and the principles of fluids in motion forms the basis for interpretation of location and directionality of blood stains

Reasons (R) : As it is not related to the force or forces that produced them

In the light of the above statements, Choose the most appropriate answer from the options given below :

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

Options :

92090690913. 1
92090690914. 2
92090690915. 3
92090690916. 4

Question Number : 29 Question Id : 92090623003 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

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

अभिकथन (A) : रक्त के भौतिक गुण-धर्मों और गति में तरल द्रव्यों के सिद्धान्त के अनुप्रयोग, रक्त धब्बे की अवस्थिति और दिशापरकता हेतु आधार निर्मित करते हैं।

कारण (R) : जैसा कि यह उन बल अथवा बलों से संबंधित नहीं होते हैं जो कि उन्हें उत्पन्न (प्रस्तुत) करते हैं।

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

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

Options :

92090690913. 1
92090690914. 2
92090690915. 3
92090690916. 4

Question Number : 30 Question Id : 92090623004 Question Type : MCQ Option Shuffling : No 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 universities in India first started forensic science programme?

- | | |
|------------------------------|----------------------------------|
| (1) Punjabi university | (2) Panjab university |
| (3) Dr. H.S. Gaur university | (4) Jawahar Lal Nehru university |

Options :

92090690917. 1
92090690918. 2
92090690919. 3
92090690920. 4

Question Number : 30 Question Id : 92090623004 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

भारत के निम्नलिखित किस विश्वविद्यालय ने पहली बार फॉरेंसिक विज्ञान कार्यक्रम (प्रोग्राम) की शुरुआत किया था?

- | | |
|----------------------------------|----------------------------------|
| (1) पंजाबी विश्वविद्यालय | (2) पंजाब विश्वविद्यालय |
| (3) डॉ. एच.एस. गौर विश्वविद्यालय | (4) जवाहरलाल नेहरू विश्वविद्यालय |

Options :

92090690917. 1
92090690918. 2
92090690919. 3
92090690920. 4

Question Number : 31 Question Id : 92090623005 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

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

Assertion (A) : First priority at crime scene is to provide first aid to the injured if any and to protect the crime scene.

Reasons (R) : Not to protect the crime scene diligently may lead to destruction of the evidence

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

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

Options :

92090690921. 1
92090690922. 2
92090690923. 3
92090690924. 4

Question Number : 31 Question Id : 92090623005 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

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

अभिकथन (A) : अपराध घटना स्थल पर पहली प्राथमिकता यदि कोई घायल व्यक्ति है तो उसका प्राथमिक उपचार करना एवं अपराध घटना स्थल को सुरक्षित रखना होता है।

कारण (R) : घटना स्थल को सुरक्षित नहीं किया जाना, अध्यवसायी रूप में साक्ष्य को नष्ट किए जाने की ओर ले जा सकता है।

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

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

Options :

- 92090690921. 1
- 92090690922. 2
- 92090690923. 3
- 92090690924. 4

Question Number : 32 Question Id : 92090623006 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

Perjury is define as

- (1) Willful utterance of falsehood
- (2) In act committed with court premises
- (3) Failure to sign summons
- (4) Failure to appears as witness

Options :

- 92090690925. 1
- 92090690926. 2
- 92090690927. 3
- 92090690928. 4

Question Number : 32 Question Id : 92090623006 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

मिथ्या-साक्ष्य परज्यूरी इस रूप में परिभाषित होती है:

- | | |
|--|---|
| (1) मिथ्यात्व का जानबूझकर किया गया कथन | (2) न्यायालय परिसर में किया गया कोई कार्य |
| (3) सम्मन पर हस्ताक्षर से चूक जाना | (4) गवाह के रूप में प्रस्तुत करने में विफलता। |

Options :

- 92090690925. 1
- 92090690926. 2
- 92090690927. 3
- 92090690928. 4

Question Number : 33 Question Id : 92090623007 Question Type : MCQ Option Shuffling : No 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 : When blood stains are studied with respect to their geometry and distribution on various surfaces, they can reveal valuable information for the reconstruction of events that produced bloodshed
- Statement II : The pattern of splatter determines the distance between target surface and origin of time of bloodshed

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 :

- 92090690929. 1
- 92090690930. 2
- 92090690931. 3
- 92090690932. 4

Question Number : 33 Question Id : 92090623007 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

नीचे दो कथन दिए गए हैं :

कथन I : जब विविध सतहों पर रक्त धब्बों का उनके ज्यामिति और फैलाव के संदर्भ में अध्ययन करते हैं, तो इससे रक्तपात होने (प्रस्तुत) से संबंधित घटनाओं के पुनर्निर्माण के बारे में मूल्यवान जानकारी प्राप्त हो सकती है।

कथन II : रक्त के बिखराव का पैटर्न (प्रतिरूप) लक्षित सतह और रक्तपात के समय के आरंभ स्रोत के मध्य दूरी को निर्धारित करता है।

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

- (1) कथन I और II दोनों 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 :

92090690929. 1

92090690930. 2

92090690931. 3

92090690932. 4

Question Number : 34 Question Id : 92090623008 Question Type : MCQ Option Shuffling : No 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 these general methods are used for isolation or concentrating accelerants from the debris (charred material) collected from crime scene and forwarded to FSL/CFSL for identification?

- (A) Steam distillation
- (B) Silver nitrate staining
- (C) Solvent extraction
- (D) Cold head space

Choose the correct answer from the options given below :

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

Options :

92090690933. 1
92090690934. 2
92090690935. 3
92090690936. 4

Question Number : 34 Question Id : 92090623008 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

इनमें से कौन-सी सामान्य विधियों का प्रयोग अपराध-स्थान से संग्रहित डेबरिस (चार्ड सामाग्री) से पार्थक्य अथवा त्वरकों को एकल करने हेतु एवं सूचना (जानकारी) हेतु एफ एस एल/सी एफ एस एल को भेजे जाने में किया जाता है?

- (A) भाप आसवन
- (B) सिल्वर नाइट्रेट अभिरंजन
- (C) विलायक निष्कर्षण (निचोड़)
- (D) शीत हेड स्पेस

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

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

Options :

92090690933. 1
92090690934. 2
92090690935. 3
92090690936. 4

Question Number : 35 Question Id : 92090623009 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

Match List I with List II :

List I	List II
(A) Starch-Iodine assay	(I) Feces
(B) Acid phosphate	(II) Saliva
(C) Para-dimethylaminocinnamaldehyde	(III) Urine
(D) Urobilinoids	(IV) Semen

Choose the correct answer from the options given below :

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

Options :

92090690937. 1
92090690938. 2
92090690939. 3
92090690940. 4

Question Number : 35 Question Id : 92090623009 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

सूची-I के साथ सूची-II का मिलान कीजिए :

सूची-I	सूची-II
(A) स्टार्च आयोडिन विश्लेषण	(I) मल
(B) एसिड फॉस्फेट	(II) लार
(C) पैरा - डाईमिथाइल अमीनो-सिनामएल्डेहाइड	(III) मूत्र
(D) युरोबिलिनॉइड्स	(IV) वीर्य

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

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

Options :

- 92090690937. 1
- 92090690938. 2
- 92090690939. 3
- 92090690940. 4

Question Number : 36 Question Id : 92090623010 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

Bloodstain pattern interpretation may provide information to the investigator in many areas, except

- (A) Origin (s) of the blood stains and distance between impact areas of blood spatter
- (B) Type and direction of impact that produced blood stains
- (C) Object/s that produced particular blood stain patterns and position of victim
- (D) Age of the victim
- (E) Sex of the victim

Choose the correct answer from the options given below :

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

Options :

- 92090690941. 1
- 92090690942. 2
- 92090690943. 3
- 92090690944. 4

Question Number : 36 Question Id : 92090623010 Question Type : MCQ Option Shuffling : No 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 किसके अतिरिक्त रक्तधब्बा पैटर्न (प्रतिरूप) - व्याख्या, जाँचकर्ता को अनेक क्षेत्रों में जानकारी प्रदान कर सकता है?

- (A) रक्तधब्बों के स्रोत (उद्गम) और रक्त - छिटकने से संघात क्षेत्रों के मध्य।
- (B) संघात के प्रकार और दिशा जिससे रक्त धब्बे प्रस्तुत (उत्पन्न) हुए।
- (C) वे पदार्थ वस्तुएं जिससे विशिष्ट रक्त-धब्बा प्रतिरूप और पीड़ित की स्थिति का पता चला।
- (D) पीड़ित की आयु
- (E) पीड़ित के लिंग

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

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

Options :

- 92090690941. 1
- 92090690942. 2
- 92090690943. 3
- 92090690944. 4

Question Number : 37 Question Id : 92090623011 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

Section 45 of Indian evidence Act deals with which of the following

- | | |
|---------------------|---------------------|
| (1) Eye witness | (2) Hostile witness |
| (3) Hearsay witness | (4) Expert witness |

Options :

- 92090690945. 1
- 92090690946. 2
- 92090690947. 3
- 92090690948. 4

Question Number : 37 Question Id : 92090623011 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

भारतीय साक्ष्य अधिनियम की धारा-45 निम्नलिखित में से किससे संबंधित है?

- | | |
|---------------------------------|---------------------|
| (1) गवाह (साक्षी) | (2) प्रतिपक्षी गवाह |
| (3) अनुश्रुत (सुना-सुनाया) गवाह | (4) विशेषज्ञ गवाह |

Options :

92090690945. 1
92090690946. 2
92090690947. 3
92090690948. 4

Question Number : 38 Question Id : 92090623012 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

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

Assertion (A) : While photographing a scene of crime, use of scale is important

Reasons (R) : Actual size of the objects in a photograph cannot be assessed without having scale there

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

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

Options :

92090690949. 1
92090690950. 2
92090690951. 3
92090690952. 4

Question Number : 38 Question Id : 92090623012 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

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

अभिकथन (A) : किसी अपराध घटनास्थल की जब फोटो खींची जाती है, तो मापनी का प्रयोग महत्वपूर्ण होता है।

कारण (R) : बिना मापनी के फोटोग्राफ में वस्तुओं के वास्तविक आकार को नहीं कल्पित किया जा सकता।

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

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

Options :

92090690949. 1
92090690950. 2
92090690951. 3
92090690952. 4

Question Number : 39 Question Id : 92090623013 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

Narcotic drugs and psychotropic substance Act was passed in which of the following year?

- | | |
|----------|----------|
| (1) 1981 | (2) 1985 |
| (3) 1975 | (4) 1986 |

Options :

92090690953. 1
92090690954. 2
92090690955. 3
92090690956. 4

Question Number : 39 Question Id : 92090623013 Question Type : MCQ Option Shuffling : No 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 किस वर्ष में स्वापक ड्रग एवं मनःप्रभावी द्रव्य (नॉरकोटिक ड्रग एण्ड सायकोट्रॉपिक सब्सटेन्स) अधिनियम पारित किया गया था?

- | | |
|----------|----------|
| (1) 1981 | (2) 1985 |
| (3) 1975 | (4) 1986 |

Options :

92090690953. 1
92090690954. 2
92090690955. 3
92090690956. 4

Question Number : 40 Question Id : 92090623014 Question Type : MCQ Option Shuffling : No 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 : Crime scene search is carried out in a methodical pattern which may be dictated by the location, size or conditions of the scene.

Statement II : Typical patterns are spiral, strip or lane and grid

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

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

Options :

92090690957. 1
92090690958. 2
92090690959. 3
92090690960. 4

Question Number : 40 Question Id : 92090623014 Question Type : MCQ Option Shuffling : No 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 : घटनास्थल संबंधी तलाश (छानबीन) सुव्यवस्थित पैटर्न (प्रतिरूप) में संचालित की जाती है जो कि घटनास्थल की अवस्थिति, आकार अथवा दशाओं के द्वारा लिखी जा सकती हैं।

कथन II : प्रारूपिक पैटर्न (प्रतिरूप), सर्पिल, निरावृत (पट्टी) अथवा लेन और ग्रिड होते हैं।

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 :

- 92090690957. 1
- 92090690958. 2
- 92090690959. 3
- 92090690960. 4

Question Number : 41 Question Id : 92090623015 Question Type : MCQ Option Shuffling : No 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 : Aperture size and depth of field in photography are related inversely.

Statement II : Larger aperture will limit the zone of sharp focus

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

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

Options :

- 92090690961. 1
- 92090690962. 2
- 92090690963. 3
- 92090690964. 4

Question Number : 41 Question Id : 92090623015 Question Type : MCQ Option Shuffling : No 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 : फोटोग्राफी में रंघ्र आकार एवं क्षेत्र की गहनता व्युत्क्रमानुपाती रूप से संबंधित होते हैं।

कथन II : वृहत्तर रंघ्र, तेज फोकस के क्षेत्र (जोन) को सीमित करेगा।

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 :

- 92090690961. 1
- 92090690962. 2
- 92090690963. 3
- 92090690964. 4

Question Number : 42 Question Id : 92090623016 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

Restoration of erased writings written with iron based inks can be done with which of the following

- | | |
|-----------------------------|---------------------------|
| (1) Sulphuric acid fumes | (2) Sulphahydril fumes |
| (3) Sulphocyanic acid fumes | (4) Sulphur dioxide fumes |

Options :

- 92090690965. 1
- 92090690966. 2
- 92090690967. 3
- 92090690968. 4

Question Number : 42 Question Id : 92090623016 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

लौह आधारित स्याही से लिखे गए, मिटा दिए गए लिखाई की पुनः स्थापना निम्नलिखित में से किससे की जा सकती है?

- | | |
|---------------------------|--------------------------|
| (1) सल्फ्युरिक अम्ल धूम | (2) सल्फाहाइड्रिल धूम |
| (3) सल्फोसियानिक अम्ल धूम | (4) सल्फर डाईऑक्साइड धूम |

Options :

- 92090690965. 1
- 92090690966. 2
- 92090690967. 3
- 92090690968. 4

Question Number : 43 Question Id : 92090623017 Question Type : MCQ Option Shuffling : No 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 : Examination of a document under U.V. radiation may help in detection of sympathetic ink writings.
- Statement II : Constituents of fluid used to write secret writing may give fluorescence on exposure to U.V. radiation

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

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

Options :

- 92090690969. 1
- 92090690970. 2
- 92090690971. 3
- 92090690972. 4

Question Number : 43 Question Id : 92090623017 Question Type : MCQ Option Shuffling : No 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 : पराबैंगनी-विकिरण (अल्ट्रा वायलेट) विकिरण के अन्तर्गत दस्तावेज की सपरीक्षा जांच, अदृश्य स्याही-लिखाई को पता लगाने में सहायक हो सकती है।

कथन II : गुप्त लेखन को लिखने में तरल (द्रव्य) के संघटक, पराबैंगनी विकिरण हेतु उद्भासन पर प्रतिदीप्ति प्रदत्त कर सकते हैं।

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 :

92090690969. 1
92090690970. 2
92090690971. 3
92090690972. 4

Question Number : 44 Question Id : 92090623018 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

DFO reagent is used to visualize latent finger marks by reacting with which of the following components present in latent finger prints

- | | |
|-----------------|---------------------|
| (1) Fatty acids | (2) Sodium chloride |
| (3) Iron | (4) Amino acids |

Options :

92090690973. 1
92090690974. 2
92090690975. 3
92090690976. 4

Question Number : 44 Question Id : 92090623018 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

अदृश्य अंगुलि छाप को चाक्षुषीकृत (देखने) करने हेतु अदृश्य अंगुलि-छापों में विद्यमान निम्नलिखित किस घटक के साथ अभिक्रिया कराने में डी एफ ओ अभिकर्मक का उपयोग किया जाता है?

- | | |
|-------------------|---------------------|
| (1) वसायुक्त अम्ल | (2) सोडियम क्लोराइड |
| (3) लौह | (4) एमीनो अम्ल |

Options :

92090690973. 1
92090690974. 2
92090690975. 3
92090690976. 4

Question Number : 45 Question Id : 92090623019 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

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

Assertion (A) : Shading is demonstrated most prominently in writings written with fountain pen

Reasons (R) : Split in the nibs of pen influences the ink supply to the writing strokes.

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

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

Options :

92090690977. 1
92090690978. 2
92090690979. 3
92090690980. 4

Question Number : 45 Question Id : 92090623019 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

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

अभिकथन (A) : शेडिंग (छापित करना), फाउटेन पेन से लिखी गई लिखावटों में सर्वाधिक प्रमुख रूप से प्रदर्शित होती है।

कारण (R) : कलम के निबो को चीरने (फाड़ने) से राईटिंग स्ट्रोक, स्याही की आपूर्ति पर प्रभाव पड़ता है।

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

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

Options :

92090690977. 1
92090690978. 2
92090690979. 3
92090690980. 4

Question Number : 46 Question Id : 92090623020 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

10 digit classification system is also known by which of the following

- | | |
|----------------------------|---------------------------|
| (1) Henry-Vancetich system | (2) Henry-Galton system |
| (3) ALW system | (4) Henry-Herschel system |

Options :

92090690981. 1
92090690982. 2
92090690983. 3
92090690984. 4

Question Number : 46 Question Id : 92090623020 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

10 अंकीय वर्गीकरण पद्धति, को निम्नलिखित किस अन्य नाम से भी जाना जाता है?

- | | |
|----------------------------|-------------------------|
| (1) हेवरी-वान्सेटिच पद्धति | (2) हेनरी-गाल्टन पद्धति |
| (3) ए.एल.डब्ल्यू पद्धति | (4) हेनरी-हर्शेल पद्धति |

Options :

92090690981. 1
92090690982. 2
92090690983. 3
92090690984. 4

Question Number : 47 Question Id : 92090623021 Question Type : MCQ Option Shuffling : No 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 film camera captures the image on a light sensitive film which is composed of

- | | |
|--------------------|----------------------|
| (1) Silver nitrate | (2) Silver nitrite |
| (3) Silver halide | (4) Silver phosphate |

Options :

92090690985. 1
92090690986. 2
92090690987. 3
92090690988. 4

Question Number : 47 Question Id : 92090623021 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

कोई फिल्म कैमरा किसी छवि को प्रकाश संवेदी फिल्म पर अभिगृहीत (कैप्चर) करता है जो निम्नलिखित किससे बना होता है?

- | | |
|---------------------|----------------------|
| (1) सिल्वर नाइट्रेट | (2) सिल्वर नाइट्राइट |
| (3) सिल्वर हेलाइड | (4) सिल्वर फॉस्फेट |

Options :

92090690985. 1
92090690986. 2
92090690987. 3
92090690988. 4

Question Number : 48 Question Id : 92090623022 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

Match List I with List II :

List I	List II
(A) Ordway Hilton	(I) Finger prints
(B) Azizul Haque	(II) Personal identification
(C) Bertillon	(III) DNA analysis
(D) Alec Jaffery	(IV) Questioned documents

Choose the correct answer from the options given below :

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

Options :

92090690989. 1

92090690990. 2

92090690991. 3

92090690992. 4

Question Number : 48 Question Id : 92090623022 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

सूची-I के साथ सूची-II का मिलान कीजिए :

सूची-I	सूची-II
(A) आर्डवे हिल्टन	(I) अंगुलि छाप
(B) अजीजुल हक	(II) निजी पहचान
(C) बेर्टिल्लॉन	(III) डी एन ए विश्लेषण
(D) एलेक जेफ्फ्री	(IV) कोश्चेन्ड डाकूमेन्ट

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

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

Options :

92090690989. 1

92090690990. 2

92090690991. 3

92090690992. 4

Question Number : 49 Question Id : 92090623023 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

Match List I with List II :

List I	List II
(A) Site of sperm maturation	(I) Spermatogenic cell
(B) Testosterone production	(II) Seminiferous tubules
(C) Site of spermatogenesis	(III) Leydig cells
(D) Sperm forming cells	(IV) Epididymis

Choose the correct answer from the options given below :

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

Options :

92090690993. 1
92090690994. 2
92090690995. 3
92090690996. 4

Question Number : 49 Question Id : 92090623023 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

सूची-I के साथ सूची-II का मिलान कीजिए :

सूची-I	सूची-II
(A) शुक्राणु परिपक्वता-स्थान	(I) स्पर्मैटोजेनिक कोशिका
(B) टेस्टोस्टेरोन उत्पादन	(II) सेमिनीफेरस ट्यूबलेस
(C) स्पर्मैटोजेनेसिस-स्थान	(III) लीडिंग कोशिकाएं
(D) शुक्राणु निर्माणकारी कोशिकाएं	(IV) एपीडीडायमिस

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

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

Options :

92090690993. 1
92090690994. 2
92090690995. 3
92090690996. 4

Question Number : 50 Question Id : 92090623024 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

Dimeric loci (in regard of DNA analysis) are not used for forensic applications because

- (A) Net abundant in human genome
- (B) Occasionally results in stutter bands
- (C) Do not work with the fluorescent dye labelled primers
- (D) Excessive slippage during amplification results in a large number of spurious bands, thus difficult to interpret
- (E) Not present in sex chromosomes

Choose the correct answer from the options given below :

- (1) (A) and (C) only
- (2) (A) and (B) only
- (3) (A) and (D) only
- (4) (B) and (D) only

Options :

- 92090690997. 1
- 92090690998. 2
- 92090690999. 3
- 92090691000. 4

Question Number : 50 Question Id : 92090623024 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

डीमेरिक लोसैं (डीएनए विश्लेषण के संदर्भ में) फोरेंसिक अनुप्रयोग हेतु नहीं प्रयुक्त किए जाते हैं क्योंकि -

- (A) मानव जीनोम में निबल प्रचुरता।
- (B) कभी-कभी स्ट्रुटर बंधों में परिणाम आते हैं।
- (C) प्रतिदीप्ति रंजक अंकित प्राइमर के साथ कार्य नहीं करता है।
- (D) प्रवर्धन के समय अधिक फिसलन, नकल बंधों वाली वृहत संख्या में परिणाम देता है, इस प्रकार इसकी व्याख्या कठिन होती है।
- (E) लिंग (सेक्स) गुण-सूत्रों में नहीं पाया जाता है।

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

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

Options :

- 92090690997. 1
- 92090690998. 2
- 92090690999. 3
- 92090691000. 4

Question Number : 51 Question Id : 92090623025 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

Which of the following are fat soluble vitamins

- (A) Vitamin A
- (B) Vitamin B
- (C) Vitamin D
- (D) Vitamin E
- (E) Vitamin K

Choose the correct answer from the options given below :

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

Options :

- 92090691001. 1
- 92090691002. 2
- 92090691003. 3
- 92090691004. 4

Question Number : 51 Question Id : 92090623025 Question Type : MCQ Option Shuffling : No 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 बसा में घुलनशील विटामिन हैं?

- (A) विटामिन A
- (B) विटामिन B
- (C) विटामिन D
- (D) विटामिन E
- (E) विटामिन K

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

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

Options :

- 92090691001. 1
- 92090691002. 2
- 92090691003. 3
- 92090691004. 4

Question Number : 52 Question Id : 92090623026 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

Which of the following factors are not responsible for the clotting of blood?

- (A) Vitamin K
- (B) Calcium
- (C) Prostacyclin
- (D) Plasmin
- (E) Fibrinogen

Choose the correct answer from the options given below :

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

Options :

- 92090691005. 1
- 92090691006. 2
- 92090691007. 3
- 92090691008. 4

Question Number : 52 Question Id : 92090623026 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

निम्नलिखित में से कौन-से कारक रक्त-स्कंदन हेतु उत्तरदायी नहीं हैं?

- (A) विटामिन K
- (B) कैल्शियम
- (C) प्रोस्टासॉक्लिन
- (D) प्लासमिन
- (E) फाइब्रिनोजेन

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

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

Options :

92090691005. 1
92090691006. 2
92090691007. 3
92090691008. 4

Question Number : 53 Question Id : 92090623027 Question Type : MCQ Option Shuffling : No 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 three basic steps of respiration are pulmonary ventilation, external respiration and cellular respiration
- Statement II : For inhalation to occur, air pressure in alveoli must be less than atmospheric pressure

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

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

Options :

92090691009. 1
92090691010. 2
92090691011. 3
92090691012. 4

Question Number : 53 Question Id : 92090623027 Question Type : MCQ Option Shuffling : No 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 : श्वसन के तीन मुख्य चरण पल्मोनरी वायु-संचार, वाह्य श्वसन और कोशिकीय श्वसन हैं।

कथन II : अन्तः श्वसन होने हेतु, कूपिका कोष एल्वियोलेर में वायुदाब, वातावरणीय वायु दाब से अवश्य ही कम होना चाहिए।

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 :

92090691009. 1

92090691010. 2

92090691011. 3

92090691012. 4

Question Number : 54 Question Id : 92090623028 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

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

Assertion (A) : The Keratin matrix protects mt DNA from degradation.

Reasons (R) : mt DNA is embedded in the Keratin matrix of hair shaft cells, thus preferred in analysis of maternal lineage

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

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

Options :

92090691013. 1

92090691014. 2

92090691015. 3

92090691016. 4

Question Number : 54 Question Id : 92090623028 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

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

अभिकथन (A) : केरोटिन आव्यूह एम टी डी एन ए को निम्नीकरण से सुरक्षित रखता है।

कारण (R) : एम टी डी एन ए बाल विकास शाफ्ट कोशिकाओं के केरोटिन आव्यूह में अंतः स्थापित रहता है, इसलिए मातृ-वंश परंपरा के विश्लेषण में वरीय होता है।

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

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

Options :

92090691013. 1

92090691014. 2

92090691015. 3

92090691016. 4

Question Number : 55 Question Id : 92090623029 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

What will be the fate of iron that is released during the breakdown of damaged red blood cells?

- (1) It is used to synthesize protein
- (2) It is transported to the liver where it become part of bile
- (3) It attaches to transferrin and is transported to bone marrow for use in haemoglobin synthesis
- (4) It is converted into urobilin and excreted in urine

Options :

92090691017. 1
92090691018. 2
92090691019. 3
92090691020. 4

Question Number : 55 Question Id : 92090623029 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

क्षतिग्रस्त लाल रक्त कोशिकाओं के टूटने (भंग) के समय निर्मोचित लौह का फेट (परिणाम) क्या होगा ?

- (1) इसका उपयोग प्रोटीन को संश्लेषित करने में होता है।
- (2) यह यकृत (लीवर) में परिवहित होता है जहाँ यह पित्त बाइल का हिस्सा बन जाता है।
- (3) यह ट्रैन्सफेरिन से मिल जाता है और हीमोग्लोबिन संश्लेषण में प्रयोग हेतु अस्थि-मज्जा में वाहित होता है।
- (4) युरोबिलिन में परिवर्तित होता है और मूत्र में उत्सर्जित होता है।

Options :

92090691017. 1
92090691018. 2
92090691019. 3
92090691020. 4

Question Number : 56 Question Id : 92090623030 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

Kwashiorkor disorder is caused by deficiency of

- | | |
|------------------|--------------|
| (1) Carbohydrate | (2) Vitamins |
| (3) Lipids | (4) Proteins |

Options :

92090691021. 1
92090691022. 2
92090691023. 3
92090691024. 4

Question Number : 56 Question Id : 92090623030 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

क्वाशियोरकॉर विकार (रोग) निम्नलिखित में किसकी न्यूनता (कमी) से होता है?

- | | |
|--------------------|-------------|
| (1) कॉर्बोहाइड्रेट | (2) विटामिन |
| (3) लिपिड | (4) प्रोटीन |

Options :

92090691021. 1
92090691022. 2
92090691023. 3
92090691024. 4

Question Number : 57 Question Id : 92090623031 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

Creatinine test is used to check for the presence of

- | | |
|-----------|-------------|
| (1) Urine | (2) Ear wax |
| (3) Semen | (4) Saliva |

Options :

92090691025. 1
92090691026. 2
92090691027. 3
92090691028. 4

Question Number : 57 Question Id : 92090623031 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

क्रेटिनिन परीक्षण टेस्ट निम्नलिखित किसकी उपस्थिति को जानने हेतु किया जाता है?

- | | |
|-----------|----------------|
| (1) मूत्र | (2) कान का मैल |
| (3) वीर्य | (4) लार |

Options :

92090691025. 1
92090691026. 2
92090691027. 3
92090691028. 4

Question Number : 58 Question Id : 92090623032 Question Type : MCQ Option Shuffling : No 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 these is an animal fibre

- | | |
|---------------|---------------|
| (1) Mohair | (2) Shahtoosh |
| (3) Polyester | (4) Nylon |

Options :

92090691029. 1
92090691030. 2
92090691031. 3
92090691032. 4

Question Number : 58 Question Id : 92090623032 Question Type : MCQ Option Shuffling : No 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 एक पशु (जीव) रेशा है?

- | | |
|--------------|------------|
| (1) जूट | (2) शाहतूश |
| (3) पॉलिस्टर | (4) नायलॉन |

Options :

92090691029. 1
92090691030. 2
92090691031. 3
92090691032. 4

Question Number : 59 Question Id : 92090623033 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

Deviation from Beer's law arises due to

- (A) If monochromatic light is used
- (B) Width of the slit is not correct
- (C) Presence of impurities like fluorescence compounds
- (D) Ionization of colored substance
- (E) If solution undergoes polymerization

Choose the correct answer from the options given below :

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

Options :

- 92090691033. 1
- 92090691034. 2
- 92090691035. 3
- 92090691036. 4

Question Number : 59 Question Id : 92090623033 Question Type : MCQ Option Shuffling : No 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 किसके कारण बीयर के सिद्धान्त से विचलन उत्पन्न होता है:-

- (A) यदि एकवर्णी प्रकाश का प्रयोग किया जाता है।
- (B) रेखाचित्र की चौड़ाई सही नहीं हो।
- (C) प्रतिदीप्ति यौगिकों जैसी अशुद्धताओं की उपस्थिति।
- (D) रंगीन पदार्थ का आयनीकरण।
- (E) यदि विलयन बहुलकीकरण।

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

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

Options :

92090691033. 1
92090691034. 2
92090691035. 3
92090691036. 4

Question Number : 60 Question Id : 92090623034 Question Type : MCQ Option Shuffling : No 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 : Rocket immuno electrophoresis is performed in agarose gel to analyse antigen-Antibody infraction

Statement II : Amount of antigen quantified by measuring the light of rocket

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

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

Options :

92090691037. 1
92090691038. 2
92090691039. 3
92090691040. 4

Question Number : 60 Question Id : 92090623034 Question Type : MCQ Option Shuffling : No 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 : एंटीजन-एण्टीबॉडी अन्योन्यक्रिया के विश्लेषण हेतु रॉकेट इम्युनोइलेक्ट्रोफोरेसिस का निष्पादन अगारोज जेल में किया जाता है।

कथन II : एंटीजेन की मात्रा का रॉकेट की ऊँचाई का मापन करके परिमाण निर्धारित किया जाता है।

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

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

Options :

92090691037. 1

92090691038. 2

92090691039. 3

92090691040. 4

Question Number : 61 Question Id : 92090623035 Question Type : MCQ Option Shuffling : No 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 UV-visible spectroscopy, which of the following transitions are observed

- (A) $\sigma - \sigma^*$
- (B) $n - \sigma^*$
- (C) $n - \pi^*$
- (D) $\pi - \pi^*$
- (E) $n - n^*$

Choose the correct answer from the options given below :

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

Options :

92090691041. 1

92090691042. 2

92090691043. 3

92090691044. 4

Question Number : 61 Question Id : 92090623035 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

पराबैंगनी दृश्य स्पेक्ट्रम विज्ञान में, निम्नलिखित में किसे प्रेक्षित करते हैं?

(A) $\sigma - \sigma^*$

(B) $n - \sigma^*$

(C) $n - \pi^*$

(D) $\pi - \pi^*$

(E) $\pi - u^*$

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

(1) केवल (A), (B), (C), (D), (E)

(2) केवल (A), (B), (D), (E)

(3) केवल (B), (C), (D), (E)

(4) केवल (A), (B), (D)

Options :

92090691041. 1

92090691042. 2

92090691043. 3

92090691044. 4

Question Number : 62 Question Id : 92090623036 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

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

Assertion (A) : The efficiency of separation in column chromatography is increased as number of theoretical plates increases.

Reasons (R) : The efficiency of separation increases due to increase in number of equilibrium of analyte in corresponding mobile phase and stationary phase

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

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

Options :

92090691045. 1

92090691046. 2

92090691047. 3

92090691048. 4

Question Number : 62 Question Id : 92090623036 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

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

अभिकथन (A) : कॉलम वर्णलेखन विज्ञान में पृथक्करण (वियोजन) की प्रगुणता में वृद्धि वैसे ही होती है जैसे सैद्धान्तिक प्लेटों की संख्या में वृद्धि होती जाती है।

कारण (R) : गतिशील अवस्था एवं स्थैतिक अवस्था में एनालाइट के साम्य (संतुलन) की संख्या में वृद्धि के कारण, पृथक्करण (वियोजन) की प्रगुणता में वृद्धि होती है।

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

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

Options :

92090691045. 1
92090691046. 2
92090691047. 3
92090691048. 4

Question Number : 63 Question Id : 92090623037 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

Match List I with List II :

List I	List II
(A) PI	(I) FT-IR
(B) M/Z	(II) ISO electric focusing (IEF)
(C) Dipole moment	(III) Gel exclusion chromatography
(D) Size and mass	(IV) Mass spectrometry

Choose the correct answer from the options given below :

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

Options :

92090691049. 1

92090691050. 2

92090691051. 3

92090691052. 4

Question Number : 63 Question Id : 92090623037 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

सूची-I के साथ सूची-II का मिलान कीजिए :

सूची-I	सूची-II
(A) PI	(I) FT-IR
(B) M/Z	(II) आइसो (सम) इलेक्ट्रिक फोकसन (आई ई एफ)
(C) द्विध्रुव-आघूर्ण	(III) जेल अपवर्जन वर्णलेखन विज्ञान
(D) आकार एवं द्रव्यमान	(IV) द्रव्यमान स्पेक्ट्रोमिति

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

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

Options :

92090691049. 1

92090691050. 2

92090691051. 3

92090691052. 4

Question Number : 64 Question Id : 92090623038 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

Match List I with List II :

List I	List II
(A) Nebulization	(I) GC
(B) ICP	(II) AAS
(C) KBr Pellet	(III) IR
(D) Pyrolyzer	(IV) MS

Choose the correct answer from the options given below :

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

Options :

92090691053. 1
92090691054. 2
92090691055. 3
92090691056. 4

Question Number : 64 Question Id : 92090623038 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

सूची-I के साथ सूची-II का मिलान कीजिए :

सूची-I	सूची-II
(A) फुहारीकरण (नेबुलाइजेशन)	(I) जी सी
(B) आई सी पी	(II) ए ए एस
(C) KBr गुटिका	(III) आई आर
(D) पायरोलॉयजर	(IV) एम एस

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

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

Options :

- 92090691053. 1
- 92090691054. 2
- 92090691055. 3
- 92090691056. 4

Question Number : 65 Question Id : 92090623039 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

How many fundamental vibration frequency is observed in infra Red spectrum of H_2O

- | | |
|-------|-------|
| (1) 6 | (2) 5 |
| (3) 4 | (4) 3 |

Options :

- 92090691057. 1
- 92090691058. 2
- 92090691059. 3
- 92090691060. 4

Question Number : 65 Question Id : 92090623039 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

H_2O के इन्फ्रारेड अवक्षत स्पेक्ट्रम में कितनी कंपन आवृत्ति पायी (प्रेक्षित) जाती है?

- | | |
|-------|-------|
| (1) 6 | (2) 5 |
| (3) 4 | (4) 3 |

Options :

- 92090691057. 1
- 92090691058. 2
- 92090691059. 3
- 92090691060. 4

Question Number : 66 Question Id : 92090623040 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

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

Assertion (A) : DTT is used in protein electrophoresis as a reducing agent to cleave disulphide bonds

Reasons (R) : DTT breaks the secondary structure of protein result in linear structure

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

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

Options :

92090691061. 1
92090691062. 2
92090691063. 3
92090691064. 4

Question Number : 66 Question Id : 92090623040 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

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

अभिकथन (A) : डायसल्फाइड बंध के विदारण हेतु प्रोटीन इलेक्ट्रोफोरेसिस में डी टी टी का उपयोग एक अपचायक के रूप में किया जाता है।

कारण (R) : प्रोटीन की द्वितीय संरचना का डी टी टी भंजन करती है जिसके परिणामस्वरूप रेखीय संरचना निर्मित होती है।

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

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

Options :

92090691061. 1
92090691062. 2
92090691063. 3
92090691064. 4

Question Number : 67 Question Id : 92090623041 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

W.C. Mc Crone is best known for his contribution to which of the following

- | | |
|---------------------|-------------------------|
| (1) DNA forensics | (2) Forensic microscopy |
| (3) Forensic botany | (4) Forensic entomology |

Options :

92090691065. 1
92090691066. 2
92090691067. 3
92090691068. 4

Question Number : 67 Question Id : 92090623041 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

डब्ल्यू.सी. मैक्क्रोने निम्नलिखित में किस क्षेत्र में अपने योगदान हेतु सुप्रसिद्ध हैं?

- | | |
|---------------------------------------|--|
| (1) डी एन ए फॉरेन्सिक | (2) फॉरेन्सिक माइक्रोस्कोपी (सूक्ष्मदर्शिकी) |
| (3) फॉरेन्सिक बॉटनी (वनस्पति विज्ञान) | (4) फॉरेन्सिक कीट-विज्ञान |

Options :

92090691065. 1
92090691066. 2
92090691067. 3
92090691068. 4

Question Number : 68 Question Id : 92090623042 Question Type : MCQ Option Shuffling : No 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 : A compound microscope employs a magnification system that exceeds the limits imposed by simple lenses. A second lens is placed in line with the first lens, which further enlarges the image.

Statement II : The total magnification of the microscope is not determined by the product of two lenses.

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

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

Options :

92090691069. 1

92090691070. 2

92090691071. 3

92090691072. 4

Question Number : 68 Question Id : 92090623042 Question Type : MCQ Option Shuffling : No 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 : किसी संयुक्त सूक्ष्मदर्शी में जब आवर्धन प्रणाली को प्रयुक्त किया जाता है जो साधारण लेंसों द्वारा कारित सीमाओं में वृद्धि कर देता है। प्रथम लेंस के संगत में जब दूसरे लेंस को रखा जाता है जिससे प्रतिबिंब का आकार प्रवर्धित हो जाता है।

कथन II : सूक्ष्मदर्शी का कुल आवर्धन दोनों लेंसों के गुणनफल से निर्धारित नहीं होता है।

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

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

Options :

92090691069. 1
92090691070. 2
92090691071. 3
92090691072. 4

Question Number : 69 Question Id : 92090623043 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

Which one of the following matrix is best suited to distinguish between episodic and continuous exposure of drug or poison

- | | |
|-----------|------------|
| (1) Liver | (2) Kidney |
| (3) Hair | (4) Blood |

Options :

92090691073. 1
92090691074. 2
92090691075. 3
92090691076. 4

Question Number : 69 Question Id : 92090623043 Question Type : MCQ Option Shuffling : No 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 आव्यूह ड्रग अथवा विष के घटनापरक और सतत उद्भासन के विभेद हेतु सर्वाधिक उपयुक्त होता है?

- | | |
|----------|-----------|
| (1) यकृत | (2) वृक्क |
| (3) बाल | (4) रक्त |

Options :

92090691073. 1
92090691074. 2
92090691075. 3
92090691076. 4

Question Number : 70 Question Id : 92090623044 Question Type : MCQ Option Shuffling : No 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 case of chronic poisoning, test conducted outside the body to know the possible potential of carcinogenicity is known as

- | | |
|----------------------|-----------------------|
| (1) Immunotoxic test | (2) In vitro test |
| (3) In vivo test | (4) Intoxication test |

Options :

92090691077. 1
92090691078. 2
92090691079. 3
92090691080. 4

Question Number : 70 Question Id : 92090623044 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

चिरकालिक विषाक्तन के संदर्भ में कैंसरधर्मिता के संभावित आशंका को जानने हेतु शरीर के बाहर किया जाने वाले परीक्षण को इस रूप में जाना जाता है :

- | | |
|----------------------------|-------------------------------|
| (1) प्रतिविष परीक्षण | (2) पात्रे (इनविट्रो) परीक्षण |
| (3) जीवे (इन वीवो) परीक्षण | (4) उन्मादन परीक्षण |

Options :

92090691077. 1
92090691078. 2
92090691079. 3
92090691080. 4

Question Number : 71 Question Id : 92090623045 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

Compounds causing defects in reproductive process or causes fetal mortality or birth with defects is known as

- | | |
|-----------------|-------------------|
| (1) Oncogene | (2) Procarcinogen |
| (3) Synergistic | (4) Teratogenic |

Options :

92090691081. 1
92090691082. 2
92090691083. 3

Question Number : 71 Question Id : 92090623045 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

प्रजनन प्रक्रिया में विकार अथवा भ्रूण-हत्या (मर्त्यता) अथवा विकार ग्रस्त जन्म को कारित (उत्पन्न) करने वाले यौगिक इस रूप में जाने जाते हैं :-

- | | |
|-----------------|---------------------|
| (1) अंकोजीन | (2) प्रोकार्सिनोजेन |
| (3) सिनरजिस्टिक | (4) टैरैटोजेनिक |

Options :

- 92090691081. 1
- 92090691082. 2
- 92090691083. 3
- 92090691084. 4

Question Number : 72 Question Id : 92090623046 Question Type : MCQ Option Shuffling : No 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 revolvers have a revolving cylinder that contains several chambers each of which hold how many cartridge(s)

- | | |
|----------|----------|
| (1) One | (2) Two |
| (3) Five | (4) Four |

Options :

- 92090691085. 1
- 92090691086. 2
- 92090691087. 3
- 92090691088. 4

Question Number : 72 Question Id : 92090623046 Question Type : MCQ Option Shuffling : No 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 रिवाल्वर में परिक्रामी (रिवाल्विंग) सेलेन्डर होता है जिसमें कुछ चैम्बर अंतर्विष्ट होते हैं, इन चैम्बरों में से प्रत्येक में कितनी कारतूस धारित होती है।

- | | |
|----------|---------|
| (1) एक | (2) दो |
| (3) पाँच | (4) चार |

Options :

- 92090691085. 1
- 92090691086. 2
- 92090691087. 3
- 92090691088. 4

Question Number : 73 Question Id : 92090623047 Question Type : MCQ Option Shuffling : No 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 normal case, the time taken for development of Rigor Mortis after death is

- | | |
|------------------|------------------|
| (1) 1.5 hours | (2) 1 to 2 hours |
| (3) 3 to 6 hours | (4) 6 to 8 hours |

Options :

- 92090691089. 1
- 92090691090. 2
- 92090691091. 3
- 92090691092. 4

Question Number : 73 Question Id : 92090623047 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

सामान्य स्थिति में, मृत्यु पश्चात् मृत्युज काठिन्य (जडता) की स्थिति (विकास) में आने में लगने वाला समय है :

- | | |
|-----------------|-----------------|
| (1) 1.5 घंटे | (2) 1 से 2 घंटे |
| (3) 3 से 6 घंटे | (4) 6 से 8 घंटे |

Options :

- 92090691089. 1
- 92090691090. 2
- 92090691091. 3
- 92090691092. 4

Question Number : 74 Question Id : 92090623048 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

Most suitable part of body used for diatoms test after death due to drowning is

- | | |
|-------------------------|--------------------------|
| (1) Muscles | (2) Bone marrow in femur |
| (3) Bone marrow in ulna | (4) Lungs |

Options :

92090691093. 1
92090691094. 2
92090691095. 3
92090691096. 4

Question Number : 74 Question Id : 92090623048 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

डूबने से हुई मृत्यु के पश्चात् किए जाने वाले डाइएटम परीक्षण में प्रयुक्त होने के लिए शरीर का कौन-सा भाग सर्वाधिक उपयुक्त होता है?

- | | |
|------------------------|------------------------|
| (1) पेशियाँ | (2) फीमर की अस्थिमज्जा |
| (3) अलना की अस्थिमज्जा | (4) फेफड़े |

Options :

92090691093. 1
92090691094. 2
92090691095. 3
92090691096. 4

Question Number : 75 Question Id : 92090623049 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

Arrange in correct sequence the general management followed in case of poisoning

- (A) Stabilization
- (B) Gut decontamination
- (C) Antidote administration
- (D) Elimination
- (E) Symptomatic treatment

Choose the correct answer from the options given below :

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

Options :

- 92090691097. 1
- 92090691098. 2
- 92090691099. 3
- 92090691100. 4

Question Number : 75 Question Id : 92090623049 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

विषाक्तन की स्थिति में सामान्य प्रबंधन को सही अनुक्रम में व्यवस्थित कीजिए।

- (A) स्थिरीकरण
- (B) आहारनाल विसंदूषण
- (C) एंटीडोट (प्रतिविष) देना
- (D) बहिष्करण
- (E) रोगसूचक उपचार

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

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

Options :

- 92090691097. 1

92090691098. 2

92090691099. 3

92090691100. 4

Question Number : 76 Question Id : 92090623050 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

Term "Fracture a-la signature" is used to define

- | | |
|--------------------------|-------------------------------|
| (1) A ring fracture | (2) A fissured fracture |
| (3) A depressed fracture | (4) Separation of suture line |

Options :

92090691101. 1

92090691102. 2

92090691103. 3

92090691104. 4

Question Number : 76 Question Id : 92090623050 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

"फ्रैक्चर अ-ला सिग्नेचर" पद निम्नलिखित में किसे परिभाषित करने में प्रयुक्त किया जाता है?

- | | |
|-------------------------------|---------------------------------|
| (1) क्लय फ्रैक्चर (अस्थिभंग) | (2) विदारित फ्रैक्चर (अस्थिभंग) |
| (3) अनुनत फ्रैक्चर (अस्थिभंग) | (4) सीवन रेखा का पृथक्करण |

Options :

92090691101. 1

92090691102. 2

92090691103. 3

92090691104. 4

Question Number : 77 Question Id : 92090623051 Question Type : MCQ Option Shuffling : No 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 : Tetrahydro cannabinol is principle constituent of marijuana resin

Statement II : Tetrahydro cannabinol is central nervous system depressant

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

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

Options :

- 92090691105. 1
- 92090691106. 2
- 92090691107. 3
- 92090691108. 4

Question Number : 77 Question Id : 92090623051 Question Type : MCQ Option Shuffling : No 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 : टेट्राहाइड्रो कैनाबिनॉल, मैरीजुआना रेजिन का प्रमुख निर्मात्री (घटक) है।

कथन II : टेट्राहाइड्रो कैनाबिनॉल, केन्द्रीय तंत्रिका तंत्र का अवशामक होता है।

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

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

Options :

- 92090691105. 1
- 92090691106. 2
- 92090691107. 3
- 92090691108. 4

Question Number : 78 Question Id : 92090623052 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

Match List I with List II :

List I	List II
Poison	Symptoms
(A) Organophosphates	(I) Guillain Barre syndrome
(B) Thallium	(II) Addison's disease
(C) Arsenic	(III) Acne
(D) Bromides	(IV) Bronchial Asthama

Choose the correct answer from the options given below :

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

Options :

- 92090691109. 1
- 92090691110. 2
- 92090691111. 3
- 92090691112. 4

Question Number : 78 Question Id : 92090623052 Question Type : MCQ Option Shuffling : No 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 विष	सूची-II संलक्षण
(A) आर्गनोफॉस्फेट	(I) गुलियन बार्रे सिन्ड्रोम
(B) थैलियम	(II) एडीसन रोग
(C) आर्सेनिक	(III) मुंहासा
(D) ब्रोमाइड	(IV) ब्रांक्रियल अस्थिमा

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

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

Options :

92090691109. 1
92090691110. 2
92090691111. 3
92090691112. 4

Question Number : 79 Question Id : 92090623053 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

Muttering delirium is observed in poisoning of

- | | |
|----------------------|-------------|
| (1) Cocaine | (2) Heroin |
| (3) Organophosphates | (4) Dhatura |

Options :

92090691113. 1
92090691114. 2
92090691115. 3
92090691116. 4

Question Number : 79 Question Id : 92090623053 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

अल्पस्वनिक प्रलाप निम्नलिखित किसके विषाक्तन में प्रेक्षित होता है ?

- | | |
|------------------|------------|
| (1) कोकीन | (2) हीरोइन |
| (3) आर्गनफॉस्फेट | (4) धतूरा |

Options :

92090691113. 1
92090691114. 2
92090691115. 3
92090691116. 4

Question Number : 80 Question Id : 92090623054 Question Type : MCQ Option Shuffling : No 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 : Asphyxia is a type of mechanical trauma in which the body is deprived of oxygen.

Statement II : The heart is the most susceptible organ to asphyxia

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

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

Options :

92090691117. 1
92090691118. 2
92090691119. 3
92090691120. 4

Question Number : 80 Question Id : 92090623054 Question Type : MCQ Option Shuffling : No 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 : श्वासावरोध, यांत्रिक संघात (ट्रॉमा) का एक प्रकार है जिसमें शरीर को ऑक्सीजन नहीं प्राप्त होता है।

कथन II : हृदय सर्वाधिक आसानी (सुभेद्य) से श्वासावरोध का शिकार होता है।

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

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

Options :

92090691117. 1

92090691118. 2

92090691119. 3

92090691120. 4

Question Number : 81 Question Id : 92090623055 Question Type : MCQ Option Shuffling : No 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 metals blocks A, B and C of masses 10 kg, 20 kg and 30 kg rest on a friction less table in a line. A is connected to B and B to C by two pieces of string with the help of the third string attached to C, the system is pulled to the right with a force of 60 N. What would be the tension of first and second strings

- | | |
|-----------------------------|-----------------------------|
| (1) 10 Newton and 30 Newton | (2) 20 Newton and 10 Newton |
| (3) 20 Newton and 30 Newton | (4) 25 Newton and 35 Newton |

Options :

92090691121. 1

92090691122. 2

92090691123. 3

92090691124. 4

Question Number : 81 Question Id : 92090623055 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

10 किग्रा., 20 किग्रा. और 30 किग्रा. द्रव्यमान वाले तीन धात्विक खंड A, B और C घर्षणरहित सारिणी में एक सीध में रखे गए हैं। C से संलग्न (जुड़ी हुई) तीसरे रज्जु की मदद से रज्जु के दो टुकड़ों द्वारा B, C से एवं A, B से जुड़ा है, इस प्रणाली को 60 N (न्युटन) वाले बल से दाहिनी ओर खींचा जाता है। प्रथम एवं द्वितीय रज्जुओं में कितना तनाव होगा?

- | | |
|----------------------------|----------------------------|
| (1) 10 न्युटन और 30 न्युटन | (2) 20 न्युटन और 10 न्युटन |
| (3) 20 न्युटन और 30 न्युटन | (4) 25 न्युटन और 35 न्युटन |

Options :

92090691121. 1
92090691122. 2
92090691123. 3
92090691124. 4

Question Number : 82 Question Id : 92090623056 Question Type : MCQ Option Shuffling : No 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 : Michelson interferometer is used to measure length or change in length with great accuracy by means of diffraction.

Statement II : Michelson Interferometer is used to measure length or change in length with great accuracy by means of interference fringes.

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

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

Options :

92090691125. 1
92090691126. 2
92090691127. 3
92090691128. 4

Question Number : 82 Question Id : 92090623056 Question Type : MCQ Option Shuffling : No 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 : मिचेलसन इंटरफेरोमीटर का प्रयोग विवर्तन संबंधी साधन द्वारा अधिक परिशुद्धता वाली लंबाई की लंबाई अथवा परिवर्तन मापने में किया जाता है।

कथन II : मिचलसन इंटरफेरोमीटर का प्रयोग, व्यतिकरण उपान्त के साधनों द्वारा अधिक परिशुद्धता वाली लंबाई, की लंबाई अथवा परिवर्तन को मापने हेतु किया जाता है।

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

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

Options :

92090691125. 1

92090691126. 2

92090691127. 3

92090691128. 4

Question Number : 83 Question Id : 92090623057 Question Type : MCQ Option Shuffling : No 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 statement is correct :

- (1) The amount of heat required to raise the temperature of 1 kg of substance by 1 K is called specific heat capacity of substance
- (2) The amount of heat required to raise the temperature of 1 kg of substance by 1 k is called specific latent heat of fusion
- (3) The amount of heat required to raise the temperature of 1 kg of substance by 1 K is called specific heat of vaporisation
- (4) Heat lost is not equal to heat gained in the principle of calorimetry

Options :

92090691129. 1

92090691130. 2

92090691131. 3

92090691132. 4

Question Number : 83 Question Id : 92090623057 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

इनमें से कौन-सा कथन सही है :

- (1) 1 किलोग्राम वजन के पदार्थ के तापक्रम में 1 K तक वृद्धि करने हेतु अपेक्षित उष्मा की मात्रा पदार्थ की विशिष्ट उष्मा धारिता कहलाती है।
- (2) 1 किलोग्राम वजन के पदार्थ के तापक्रम में 1 K तक वृद्धि करने हेतु अपेक्षित उष्मा की मात्रा संलयन की विशिष्ट गुप्त उष्मा कहलाती है।
- (3) 1 किलोग्राम वजन के पदार्थ के तापक्रम में 1 K तक वृद्धि करने हेतु अपेक्षित उष्मा की मात्रा वाष्पीकरण की विशिष्ट गुप्त उष्मा कहलाती है।
- (4) कैलोरीमिति के सिद्धान्त में नष्ट-उष्मा, प्राप्त की गयी उष्मा के बराबर नहीं होती है।

Options :

92090691129. 1

92090691130. 2

92090691131. 3

92090691132. 4

Question Number : 84 Question Id : 92090623058 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

Among the four options given, choose the most appropriate sequence of the four phrases given below to make a meaningful sentence

- (A) Only a part of light with electric field vector perpendicular to the plane of incidence will be reflected
- (B) Let this light be incident on the surface of the prism at Brewster's angle. No reflection is observed
- (C) An unpolarised beam of light is incident at an Brewster's angle on an interface of two media
- (D) By using a good polariser, if we completely remove all the light with its electric vector perpendicular to the plane of incidence.

Choose the correct answer from the options given below :

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

Options :

- 92090691133. 1
- 92090691134. 2
- 92090691135. 3
- 92090691136. 4

Question Number : 84 Question Id : 92090623058 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

चार विकल्पों दिए गए हैं। नीचे दिए गए चार वाक्यांशों से एक अर्थपूर्ण वाक्य बनाने हेतु सर्वाधिक उपयुक्त अनुक्रम को चुनिए।

- (A) विद्युत क्षेत्र वाले प्रकाश का केवल एक हिस्सा आपतन-पटल हेतु सदिश लंबवत को प्रतिबिंबित करेगा।
- (B) ब्रेउस्टर-कोण के प्रिज्म की सतह पर प्रकाश के आपतित होने पर कोई परावर्तन प्रेक्षित नहीं होता है।
- (C) प्रकाश की अध्रुवीय बीम, दो मीडिया के किसी अंतःस्थान पर ब्रेउस्टर-कोण पर आपतित होती है।
- (D) उत्तम ध्रुवक का प्रयोग करते हुए आपतन-पटल से संबंधित इसके विद्युत सदिश लंबवत सहित समस्त प्रकाश को हम पूर्णतया हटाते हैं।

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

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

Options :

- 92090691133. 1
- 92090691134. 2
- 92090691135. 3
- 92090691136. 4

Question Number : 85 Question Id : 92090623059 Question Type : MCQ Option Shuffling : No 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

- (A) Central forces
- (B) Law of periods
- (C) Same force for the same time causes the same change in Momentum for different bodies
- (D) Centripetal force

List II

- (I) Statement is Related to Newton 2nd law of motion
- (II) Force that provides inward radial acceleration
- (III) Force which is always directed towards or away from fixed point
- (IV) Square of the time period of revolution of a planet is proportional to cube of semi-major axis of ellipse

Choose the correct answer from the options given below :

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

Options :

- 92090691137. 1
- 92090691138. 2
- 92090691139. 3
- 92090691140. 4

Question Number : 85 Question Id : 92090623059 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

सूची-I के साथ सूची-II का मिलान कीजिए :

सूची-I	सूची-II
(A) केन्द्र बल	(I) यह कथन, न्यूटन के गति संबंधी दूसरे नियम से संबंधित है।
(B) आवर्त-नियम	(II) वह बल जो भीतर की ओर त्रिज्यीय त्वरण प्रदत्त करता है।
(C) समान समय हेतु समान बल, विभिन्न निकायों हेतु संवेग में समान परिवर्तन उत्पन्न करता है।	(III) वह बल जो कि सदैव किसी निश्चित बिंदु की ओर अथवा दूर निर्देशित होता है।
(D) केन्द्राभिसारी बल	(IV) किसी ग्रह के परिक्रमण के आवर्तनकाल का वर्ग, दीर्घवृत्त के अर्ध-प्रमुख अक्ष के घन के समानुपातिक होता है।

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

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

Options :

92090691137. 1
92090691138. 2
92090691139. 3
92090691140. 4

Question Number : 86 Question Id : 92090623060 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

Among the four options given, choose the most appropriate sequence for the four phrases given below to make a meaningful sequence

- (A) As it enters a raindrop
- (B) Of white light to separate
- (C) Which causes the different wavelength (colours)
- (D) Sunlight in first refracted

Choose the correct answer from the options given below :

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

Options :

- 92090691141. 1
- 92090691142. 2
- 92090691143. 3
- 92090691144. 4

Question Number : 86 Question Id : 92090623060 Question Type : MCQ Option Shuffling : No 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 चार विकल्पों में से, अर्थपूर्ण अनुक्रम बनाने हेतु नीचे दिए गए चार वाक्यांशों में से सर्वाधिक उपयुक्त अनुक्रम को चुनिए।

- (A) जैसे इसमें कोई वर्षा बूंद प्रवेश करती है।
- (B) श्वेत प्रकाश को पृथक करने के लिए
- (C) जो कि भिन्न तरंग दैर्घ्य (रंग) उत्पन्न करते हैं।
- (D) सूर्य किरण (प्रकाश) पहले अपवर्तित होती है।

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

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

Options :

- 92090691141. 1

92090691142. 2

92090691143. 3

92090691144. 4

Question Number : 87 Question Id : 92090623061 Question Type : MCQ Option Shuffling : No 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 phase difference of two light waves can change if they travel through different media, with different indexes of refraction the reason for this is

- (1) Their wavelength are same in different media
- (2) Their wavelength are different in the different media
- (3) Their wavelength are different in same media
- (4) Media has no effect on wavelength

Options :

92090691145. 1

92090691146. 2

92090691147. 3

92090691148. 4

Question Number : 87 Question Id : 92090623061 Question Type : MCQ Option Shuffling : No 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 प्रकाश तरंगों की प्रावस्था अंतर में परिवर्तन हो सकता है यदि वे अपवर्तन के विभिन्न सूचकांकों वाली भिन्न मीडिया से गुजरती हैं। यह इस कारण से होता है :-

- (1) उनकी तरंगदैर्घ्य, भिन्न मीडिया में समान होती हैं।
- (2) उनकी तरंगदैर्घ्य, भिन्न मीडिया में असमान होती है।
- (3) उनकी तरंगदैर्घ्य, समान मीडिया में भिन्न होती है।
- (4) मीडिया का तरंगदैर्घ्य पर कोई प्रभाव नहीं होता है।

Options :

92090691145. 1

92090691146. 2

92090691147. 3

92090691148. 4

Question Number : 88 Question Id : 92090623062 Question Type : MCQ Option Shuffling : No 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 monochromatic light of frequency 6.0×10^{14} Hz is produced by a laser. The power emitted in 2.0×10^{-3} watt. What will be the energy of the photon in the light beam

- | | |
|---------------------------|---------------------------|
| (1) 2×10^{-19} J | (2) 3×10^{-19} J |
| (3) 4×10^{-19} J | (4) 5×10^{-19} J |

Options :

92090691149. 1
92090691150. 2
92090691151. 3
92090691152. 4

Question Number : 88 Question Id : 92090623062 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

लेजर से 6.0×10^{14} हर्ट्ज आवृत्ति वाली एकवर्णी प्रकाश उत्पन्न किया जाता है। उत्सर्जित की गयी ऊर्जा 2.0×10^{-3} वॉट है। प्रकाश बीम में फोटॉन की ऊर्जा कितनी होगी ?

- | | |
|---------------------------|---------------------------|
| (1) 2×10^{-19} J | (2) 3×10^{-19} J |
| (3) 4×10^{-19} J | (4) 5×10^{-19} J |

Options :

92090691149. 1
92090691150. 2
92090691151. 3
92090691152. 4

Question Number : 89 Question Id : 92090623063 Question Type : MCQ Option Shuffling : No 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 circular race track of radius 300 m is banked at an angle of 15° , if the co-efficient of friction between the wheels of a race car and the road is 0.2. What will be the optimum speed of the race-car to avoid wear and tear on its tyre and what will be the permissible speed to avoid slipping

- | | |
|---------------------------|---------------------------|
| (1) 25.1 m/s and 35.1 m/s | (2) 28.1 m/s and 35.1 m/s |
| (3) 28.1 m/s and 38.1 m/s | (4) 25.1 m/s and 38.1 m/s |

Options :

92090691153. 1
92090691154. 2
92090691155. 3
92090691156. 4

Question Number : 89 Question Id : 92090623063 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

300 मी. त्रिज्या वाला एक वृत्तीय धावन मार्ग 15° के कोण पर स्थित है, दौड़ने वाली कार के पहियों और सड़क के मध्य घर्षण का गुणांक 0.2 है। धावन-कार के टायर की कटना-घिसना होने से बचने के लिए धावन-कार की इष्टतम गति कितनी होगी और फिसलन से बचने हेतु स्वीकार्य (जरूरी) गति कितनी होगी?

- | | |
|----------------------------------|----------------------------------|
| (1) 25.1 मी./से. और 35.1 मी./से. | (2) 28.1 मी./से. और 35.1 मी./से. |
| (3) 28.1 मी./से. और 38.1 मी./से. | (4) 25.1 मी./से. और 38.1 मी./से. |

Options :

92090691153. 1
92090691154. 2
92090691155. 3
92090691156. 4

Question Number : 90 Question Id : 92090623064 Question Type : MCQ Option Shuffling : No 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 road is banked correctly for a speed of 40 km/h. What is the maximum speed with which a car can negotiate the bend without skidding, if the co-efficient of friction between road and tyre is 0.3 and the radius of the bend is 1 km

- | | |
|--------------|--------------|
| (1) 100 km/h | (2) 200 km/h |
| (3) 300 km/h | (4) 400 km/h |

Options :

92090691157. 1
92090691158. 2
92090691159. 3
92090691160. 4

Question Number : 90 Question Id : 92090623064 Question Type : MCQ Option Shuffling : No 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 सड़क जिसपर गति सीमा 40 किमी/घंटा निर्धारित की गयी है। यदि सड़क और टायर के मध्य घर्षण का गुणांक 0.3 हो और घुमाव संबंधी त्रिज्या 1 किमी. है तो कार की वह अधिकतम गति कितनी होगी जिस पर कार को बिना फिसले हुए चलाया जा सकता है?

- | | |
|--------------------------|--------------------------|
| (1) 100 किमी. प्रति घंटा | (2) 200 किमी. प्रति घंटा |
| (3) 300 किमी. प्रति घंटा | (4) 400 किमी. प्रति घंटा |

Options :

92090691157. 1
92090691158. 2
92090691159. 3
92090691160. 4

Question Number : 91 Question Id : 92090623065 Question Type : MCQ Option Shuffling : No 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 (Molecule)	List II (Shape)
(A) ICl_4^-	(I) Linear
(B) I_3^-	(II) Pentagonal bipyramid
(C) IF_7	(III) Square planar
(D) $\text{Ba}_2 [\text{XeO}_6]^{4-}$	(IV) Octahedral

Choose the correct answer from the options given below :

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

Options :

92090691161. 1
92090691162. 2
92090691163. 3
92090691164. 4

Question Number : 91 Question Id : 92090623065 Question Type : MCQ Option Shuffling : No 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 Molecule	सूची-II आकृति
(A) $[\text{ICl}_4]^-$	(I) रेखीय
(B) I_3^-	(II) पंचभुजी द्विपिरामिड
(C) IF_7	(III) वर्ग समतल
(D) $\text{Ba}_2 [\text{XeO}_6]_4^-$	(IV) अष्टभुजाकार

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

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

Options :

92090691161. 1
92090691162. 2
92090691163. 3
92090691164. 4

Question Number : 92 Question Id : 92090623066 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

For a molecule with d^2 configuration, the increasing order of the energy of various states is

- (1) ${}^3F < {}^3P < {}^1G < {}^1D < {}^1S$ (2) ${}^3F > {}^3P > {}^1G > {}^1D > {}^1S$
 (3) ${}^3P > {}^3F > {}^1S > {}^1D > {}^1G$ (4) ${}^1S < {}^1D < {}^1G < {}^3P < {}^3F$

Options :

92090691165. 1
 92090691166. 2
 92090691167. 3
 92090691168. 4

Question Number : 92 Question Id : 92090623066 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

d^2 विन्यास वाले अणु के लिए, विविध अवस्थाओं की ऊर्जा का बढ़ता हुआ क्रम है :-

- (1) $3F < 3P < 1G < 1D < 1S$ (2) $3F > 3P > 1G > 1D > 1S$
 (3) $3P > 3F > 1S > 1D > 1G$ (4) $1S < 1D < 1G < 3P < 3F$

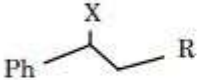
Options :

92090691165. 1
 92090691166. 2
 92090691167. 3
 92090691168. 4

Question Number : 93 Question Id : 92090623067 Question Type : MCQ Option Shuffling : No 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 molecule cannot be eliminated by E_2 mechanism?

- (1)  (2) 
 (3)  (4) 

Options :

92090691169. 1

92090691170. 2

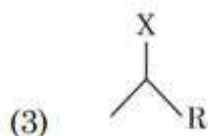
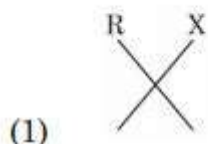
92090691171. 3

92090691172. 4

Question Number : 93 Question Id : 92090623067 Question Type : MCQ Option Shuffling : No 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 अणु, E_2 क्रियाविधि प्रक्रिया द्वारा विलोपित नहीं किया जा सकता?



Options :

92090691169. 1

92090691170. 2

92090691171. 3

92090691172. 4

Question Number : 94 Question Id : 92090623068 Question Type : MCQ Option Shuffling : No 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 represents chemiluminescence?

- (A) The oxidation of 3-aminophthalic cyclic hydrazide in alkaline solution of hydrogen peroxide
- (B) Oxidation of phosphorus
- (C) Bioluminescence
- (D) Photosensitization of mercury

Choose the correct answer :

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

Options :

92090691173. 1
92090691174. 2
92090691175. 3
92090691176. 4

Question Number : 94 Question Id : 92090623068 Question Type : MCQ Option Shuffling : No 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 रसोसंदीप्ति (केमील्यूमिनिसेन्स) को निरुपित करता है?

- (A) हाइड्रोजन पेरॉक्साइड के क्षारीय विलयन में 3 अमीनोप्थेलिक सायक्लिक हाइड्राजाइड का उपचयन।
- (B) फास्फोरस का उपयन
- (C) जैवसंदीप्ति
- (D) पारा का प्रकाश सुग्राहीकरण

सही उत्तर का चयन कीजिए :

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

Options :

92090691173. 1
92090691174. 2
92090691175. 3
92090691176. 4

Question Number : 95 Question Id : 92090623069 Question Type : MCQ Option Shuffling : No 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 (Bond)	List II (Bond energy)
(A) O – H	(I) 456
(B) O – C	(II) 418
(C) C = O	(III) 469
(D) C – H	(IV) 369

Choose the correct answer from the options given below :

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

Options :

92090691177. 1

92090691178. 2

92090691179. 3

92090691180. 4

Question Number : 95 Question Id : 92090623069 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

सूची-I के साथ सूची-II का मिलान कीजिए :

सूची-I	सूची-II
(A) O – H	(I) 456
(B) O – C	(II) 418
(C) C = O	(III) 469
(D) C – H	(IV) 369

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

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

Options :

- 92090691177. 1
- 92090691178. 2
- 92090691179. 3
- 92090691180. 4

Question Number : 96 Question Id : 92090623070 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

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

Assertion (A) : Tertiary halide reacts faster than secondary halide.

Reasons (R) : Tertiary carbocation has greater stability.

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

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

Options :

- 92090691181. 1
- 92090691182. 2
- 92090691183. 3
- 92090691184. 4

Question Number : 96 Question Id : 92090623070 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

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

अभिकथन (A) : तृतीयक हैलाइड, द्वितीयक हैलाइड की अपेक्षा तीव्र अभिक्रिया करता है।

कारण (R) : कार्बनीकरण-परीक्षण में अधिकतर (व्यापक) स्थिरता पायी जाती है।

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

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

Options :

- 92090691181. 1
- 92090691182. 2
- 92090691183. 3
- 92090691184. 4

Question Number : 97 Question Id : 92090623071 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

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

Assertion (A): The boiling point of ethylene glycol is higher in comparsion to ethanol.

Reasons (R): Ethylene glycol has two hydroxyl groups whereas ethanol has a single hydroxyl group.

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

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

Options :

- 92090691185. 1

92090691186. 2

92090691187. 3

92090691188. 4

Question Number : 97 Question Id : 92090623071 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

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

अभिकथन (A) : एथलीन ग्लायकॉल का क्वथनांक, एथनॉल की अपेक्षा अधिक होता है।

कारण (R) : एथलीन ग्लायकॉल में 2 हाइड्रॉक्सिल समूह पाया जाता है जबकि एथनॉल में एकल हाइड्रॉक्सिल समूह होता है।

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

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

Options :

92090691185. 1

92090691186. 2

92090691187. 3

92090691188. 4

Question Number : 98 Question Id : 92090623072 Question Type : MCQ Option Shuffling : No 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 transition state represents an energy maximum.

Statement II : The phosphorescence is a non-radiative process.

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

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

Options :

92090691189. 1

92090691190. 2

92090691191. 3

92090691192. 4

Question Number : 98 Question Id : 92090623072 Question Type : MCQ Option Shuffling : No 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 : संक्रमण अवस्था अधिकतम ऊर्जा को निरूपित करता है।

कथन II : स्फुटरीदीप्ति एक गैर-विकरणनीय प्रक्रिया है।

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

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

Options :

92090691189. 1

92090691190. 2

92090691191. 3

92090691192. 4

Question Number : 99 Question Id : 92090623073 Question Type : MCQ Option Shuffling : No 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 groups are isoelectric with nitrogen molecule

- (A) $C \equiv O$
- (B) $C \equiv N^-$
- (C) $^-C=C^-$
- (D) $C=O$

The options are :

- (1) (A) only
- (2) (B) only
- (3) Both (A) and (B)
- (4) Both (B) and (D)

Options :

92090691193. 1

92090691194. 2

92090691195. 3

92090691196. 4

Question Number : 99 Question Id : 92090623073 Question Type : MCQ Option Shuffling : No 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-से समूह नाइट्रोजन अणु के साथ समवैद्युत होते हैं?

- (A) $C \equiv O$
- (B) $C \equiv N^-$
- (C) $^-C = C^-$
- (D) $C = O$

विकल्प हैं :

- (1) केवल (A)
- (2) केवल (B)
- (3) (A) और (B) दोनों
- (4) (B) और (D) दोनों

Options :

92090691193. 1
92090691194. 2
92090691195. 3
92090691196. 4

Question Number : 100 Question Id : 92090623074 Question Type : MCQ Option Shuffling : No 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 spectroscopic technique detects the bond length and angles

- (1) Radiowaves
- (2) Infra-red waves
- (3) X-rays
- (4) UV radiation

Options :

92090691197. 1
92090691198. 2
92090691199. 3
92090691200. 4

Question Number : 100 Question Id : 92090623074 Question Type : MCQ Option Shuffling : No 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-सी स्पेक्ट्रमी तकनीक (प्रविधि), बंध-लंबाई एवं कोणों का संसूचन करती है।

- | | |
|------------------|------------------------------|
| (1) रेडियो तरंगे | (2) इन्फ्रारेड (अवरक्त) तरंग |
| (3) एक्स-रे | (4) पराबैंगनी विकिरण |

Options :

92090691197. 1

92090691198. 2

92090691199. 3

92090691200. 4

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