



Monthly Progressive Test

Class: VIII

Subject: PCMB



Test Booklet No.: MPT010

Test Date:

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|---|---|---|---|---|---|---|---|

Time: 120 mins

Full Marks: 200

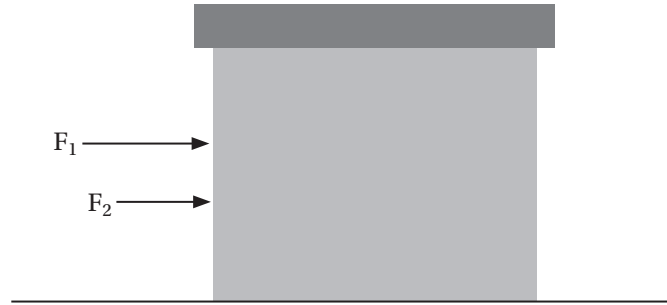
Important Instructions :

1. The Test is of 120 mins duration and the Test Booklet contains 100 multiple choice questions of single correct option only. There are four sections with four subjects. You have to attempt all 100 questions (Candidates are advised to read all 100 questions). Questions 1 to 25 contain Physics, Questions 26 to 50 contain Chemistry, Questions 51 to 75 contain Mathematics, Questions 76 to 100 contain Biology.
2. Each question carries 2 marks. For each correct response, the candidate will get 2 marks. There is no negative mark for wrong response. The maximum mark is 200.
3. Use Blue / Black Ball point Pen only for writing particulars marking responses on Answer Sheet.
4. Rough work is to be done in the space provided for this purpose in the Test Booklet only.
5. On completion of the test, the candidate must handover the Answer Sheet to the invigilator before leaving the Room / Hall. The candidates are allowed to take away this Test Booklet with them.
6. The CODE for this Booklet is Off Line MPT1010022025.
7. The candidates should ensure that the Answer Sheet is not folded. Do not make any stray marks on the Answer Sheet. Do not write your UID No. anywhere else except in the specified space. Use of white fluid for correction is NOT permissible on the Answer Sheet. **Do not scibble or write on or beyond discrete bars of OMR sheet at both sides.**
8. Each candidate must show on-demand his/her Registration document to the Invigilator.
9. No candidate, without special permission of the Centre Superintendent or Invigilator, would leave his/her seat.
10. Use of Electronic Calculator/Cellphone is prohibited.
11. The candidates are governed by all Rules and Regulations of the examination with regard to their conduct in the Examination Hall. All cases of unfair means will be dealt with as per Rules and Regulations of this examination.
12. No part of the Test Booklet and Answer Sheet shall be detached under any circumstances.
13. There is no scope for altering response mark in Answer Sheet.

Space For Rough Works

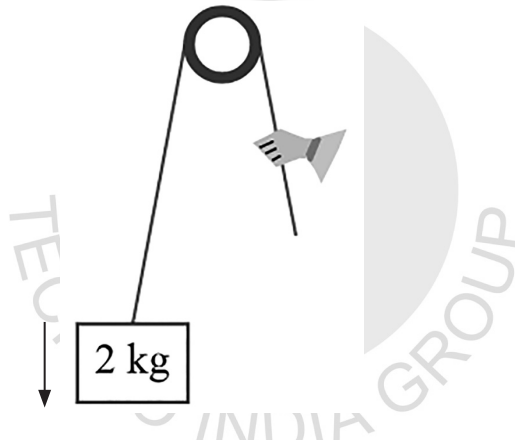
Physics

1. The image shows a block in which force F_1 and F_2 are acting



What would be the net force on the block?

- (A) F_1 (B) F_2 (C) $F_2 - F_1$ (D) $F_1 + F_2$
2. A block of mass 2 kg tied with a rope is going down under the force of gravity of 20 N.



How much force is required by the hand to stop the motion of the block?

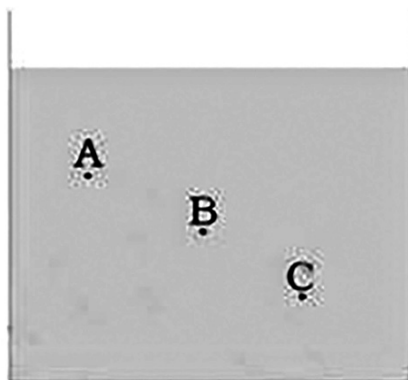
- (A) 10 N (B) 20 N (C) 30 N (D) 40 N
3. A football is placed on the ground, as shown



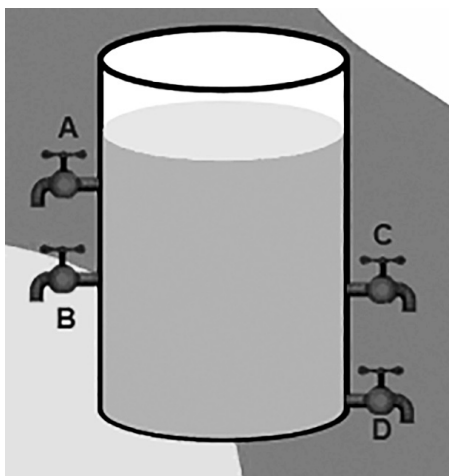
What should be the direction of the force applied to the ball to change the shape of the football?

- (A) Upwards (B) Downwards (C) Towards left (D) Towards right
4. A force cannot change the
- (A) speed of an object (B) mass of an object
 (C) shape of an object (D) the direction of a moving object

5. The SI unit of pressure is
 Ⓐ Nm^{-2} Ⓑ N Ⓒ bar Ⓓ Nm
6. When we press the bulb of a dropper with its nozzle kept in water, air in the dropper is seen to escape in the form of bubbles. Once we release the pressure on the bulb, water gets filled in the dropper. The rise of water in the dropper is due to
 Ⓐ pressure of water Ⓑ gravity of earth Ⓒ shape of rubber bulb Ⓓ atmospheric pressure
7. During dry weather, while combing hair, sometimes we experience hair flying apart. The force responsible for this is
 Ⓐ force of gravity Ⓑ electrostatic force Ⓒ force of friction Ⓓ magnetic force
8. The figure below shows a container filled with water. Which of the following statements is correct about pressure of water?

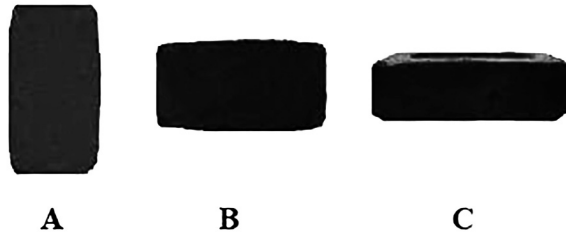


- Ⓐ Pressure at A > Pressure at B > Pressure at C Ⓑ Pressure at A = Pressure at B = Pressure at C
 Ⓒ Pressure at A < Pressure at B > Pressure at C Ⓓ Pressure at A < Pressure at B < Pressure at C
9. Two objects repel each other. This repulsion could be due to
 Ⓐ frictional force only Ⓑ electrostatic force only
 Ⓒ magnetic force only Ⓓ either a magnetic or an electrostatic force
10. A water tank has four taps fixed at points A, B, C, D as shown in the figure below. The water will flow out at the same pressure from taps at

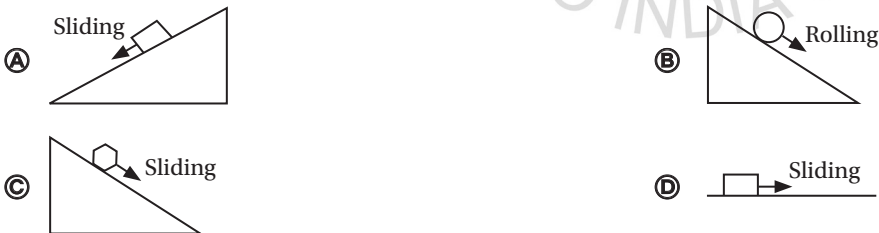


- Ⓐ B and C Ⓑ A and B Ⓒ C and D Ⓓ A and C

11. A brick is kept in three different ways on a table as shown in the figure above. The pressure experienced by the brick on the table will be



- (A) maximum in position A (B) maximum in position B
 (C) maximum in position C (D) equal in all cases
12. Which of the following is not correct?
 (A) More the oscillations per second, higher is the time period
 (B) Greater the amplitude, greater is the loudness
 (C) Higher the pitch, higher is the frequency of vibration
 (D) More the value of decibel, higher is the noise
13. The ratio of intensities of two sound waves is 1 : 2, their amplitudes will be in the ratio
 (A) 2 : 1 (B) $1 : \sqrt{2}$ (C) 4 : 1 (D) 1 : 4
14. If the intensity of a sound becomes 100 times, then the amplitude becomes
 (A) 100 times (B) 1000 times (C) 10 times (D) 2 times
15. A female voice is generally shriller than a male voice, because the female voice has
 (A) Higher frequency (B) Lower frequency (C) Lower amplitude (D) Higher amplitude
16. In which of the following situations, the frictional force is least?

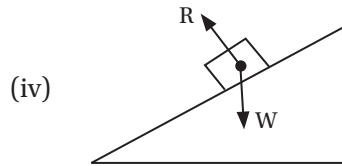
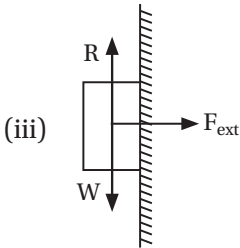
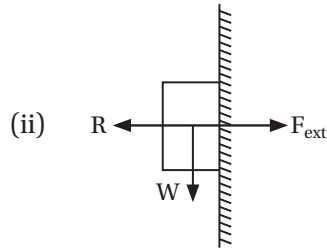
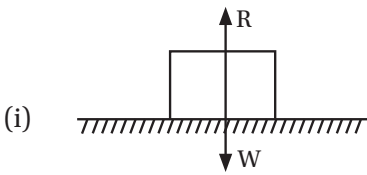


17. A block is placed on a rough surface. If the value of limiting friction is 70N, then in which of the following the block will move?



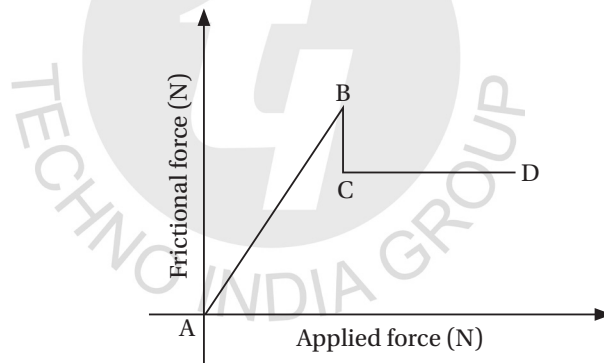
18. A block is pushed on a rough surface with a force of 50 N. If the limiting friction for the block is 80 N, then the frictional force acting on the block is
 (A) 30 N (B) 80 N (C) 50 N (D) 130 N

19. Which of the following shows the correct direction of normal reaction (R)?



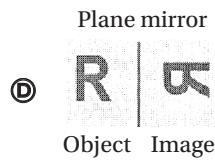
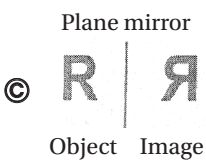
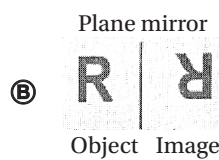
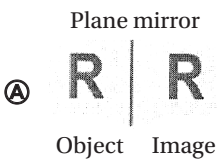
- Ⓐ Only (i) Ⓑ Both (i) and (iii) Ⓒ (i), (ii) and (iv) Ⓓ All of these

20. Graph between frictional force and applied force is given below. Choose the correct statement among the following

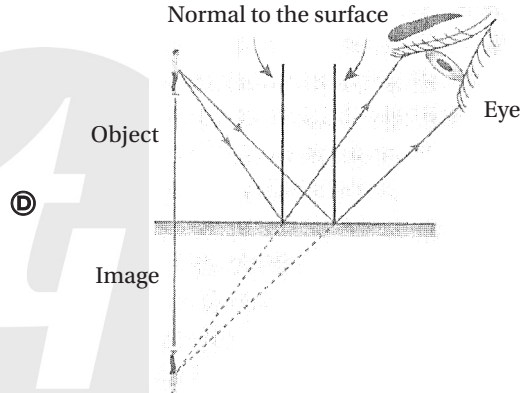
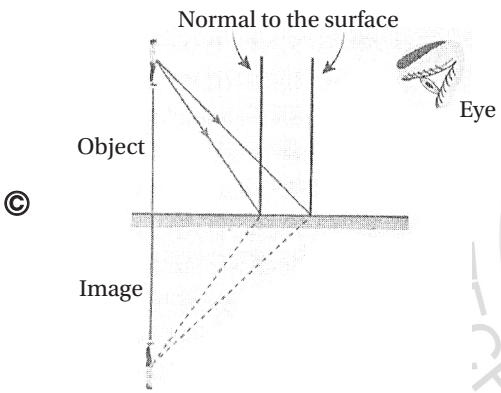
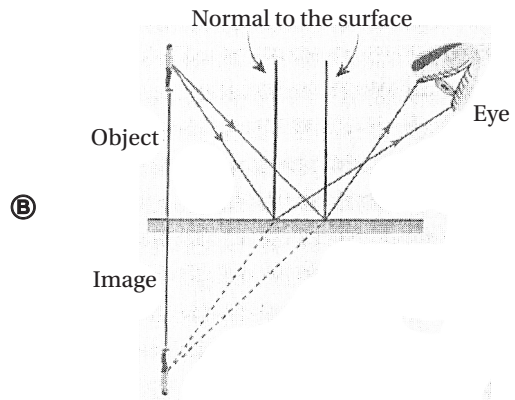
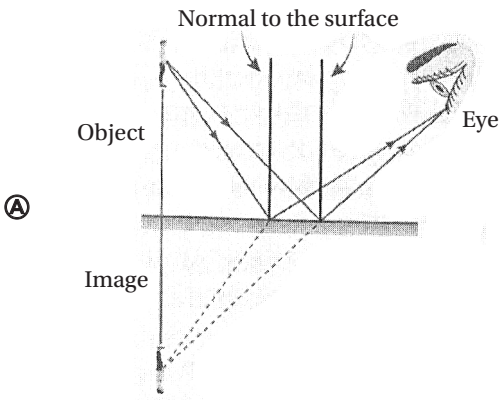


- Ⓐ Frictional force is directly proportional to the applied force is shown by region CD
 Ⓑ Frictional force is maximum in region CD
 Ⓒ Frictional force is directly proportional to the applied force is shown by region AB
 Ⓓ Region AB is showing dynamic friction and CD is showing static friction

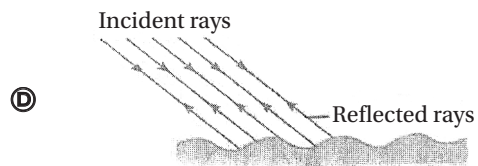
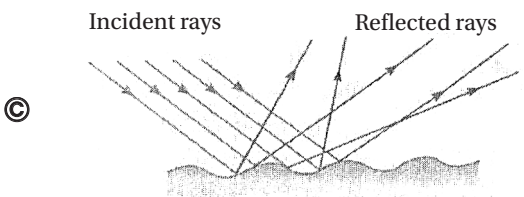
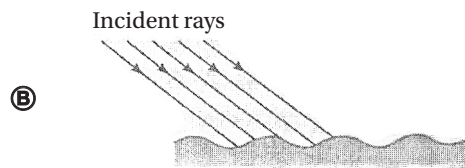
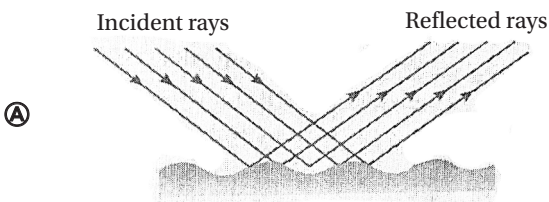
21. A student studies that a plane mirror results in a laterally inverted image after reflecting. Which of these represents the image likely to be formed by a plane mirror?



22. Which of these line diagrams represents the image formation by a plane mirror?



23. Which of these ray diagrams represent the path of light falling on a rough surface?



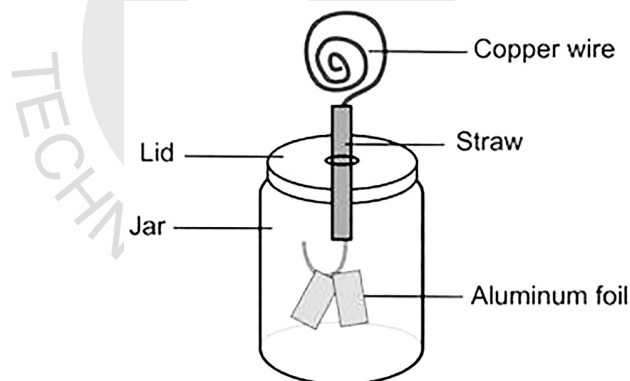
Activity-based Questions:

24. A student hung two balloons to a stand using some thread. He noticed that the balloons move away from each other to maintain some gap- as shown in the image



What might have caused the balloons to repel?

- (A) Like charges on the balloons
 (B) Material of the thread
 (C) Colour of the balloons
 (D) Shape of the balloons
25. A student performs an activity to detect if an object is charged or not. He made an electroscope as shown in the image.



He brought a charged object near the copper wire to test the working of the device. What changes are likely observed when a charged object is brought closer to the copper wire?

- (A) The copper wire unwinds
 (B) Colour of the jar changes
 (C) The foil sticks to each other
 (D) Aluminium foils repel each other

Chemistry

26. Calorific values of fuels P, Q, R, S and T are in the order $T > R > Q > S > P$. P, Q, R, S and T could be respectively.
- (A) Hydrogen, LPG, Petrol, Wood and cow dung cakes
 (B) LPG, Petrol, Hydrogen, Wood and cow dung cakes
 (C) LPG, Hydrogen, Petrol, Wood and cow dung cakes
 (D) Petrol, LPG, Hydrogen, Wood and cow dung cakes

27. Match the following columns for the flame of a candle :

| Column I (Part) | | Column II (Zone) | | Column III (Colour) | |
|-----------------|---------------------|------------------|--|---------------------|--------|
| P. | Hottest Part | (i) | Innermost zone of unburnt wax vapours | (X) | Blue |
| Q. | Moderately hot part | (ii) | Middle zone of partial combustion | (Y) | Black |
| R. | Least hot part | (iii) | Outer most zone of complete combustion | (Z) | Yellow |

- (A) P—(iii), (Y); Q—(i), (Z); R—(i), (X) (B) P—(ii), (X); Q—(iii), (Y); R—(i), (Z)
 (C) P—(iii), (X); Q—(ii), (Z); R—(i), (Y) (D) P—(i), (Z); Q—(iii), (X); R—(ii), (Y)

28. Which type of coal is mostly used to produce coke?

- (A) Peat (B) Anthracite (C) Bituminous (D) Lignite

29. The colour change of CuSO_4 solution can be observed when it is made to react with :

- (A) Silver (B) Silver chloride solution
(C) Zinc (D) Gold

30. Which of the following liquids are good conductors of electricity in its aqueous solution :

- (A) Acids (B) Bases (C) Salts (D) All of the above

31. In an experiment 4.5 kg of a fuel was completely burn. The heat produced was measured to be 1,80,000 kJ. Calculate the calorific value of the fuel.

- (A) 30,000 kJ/kg (B) 40,000 kJ/kg (C) 60,000 kJ/kg (D) 80,000 kJ/kg

32. Name the gas which has the highest contribute to global warming :

- (A) CO_2 (B) CH_4 (C) Nitrous oxide (D) Water vapour

33. Acid rain can be caused by the burning of :

- (A) Petrol (B) CNG (C) Diesel (D) Coal

34. Producer gas is :

- (A) $[\text{CO} + \text{N}_2]$ (B) $[\text{CO} + \text{H}_2]$ (C) $[\text{CO} + \text{O}_2]$ (D) $[\text{CO} + \text{Cl}_2]$

35. Fuel must be heated to it's _____ before it starts burning.

- (A) Conversion temperature (B) Ignition temperature
(C) Inversion temperature (D) Combustion temperature

36. A student burns three substances P, Q and R and records the observation in a table.

| Substance | Observation |
|-----------|---|
| P | Burns quickly producing heat and light |
| Q | Burns at room temperature on its own |
| R | Burns with evolution of heat, light and sound |

Which option correctly categories the given substances?

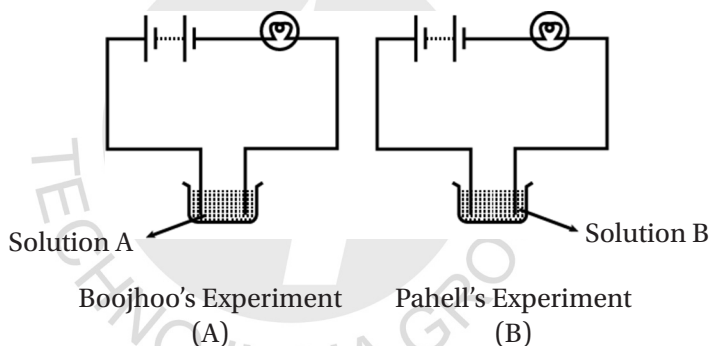
- (A) All the substances are undergoing rapid combustion.

- Ⓑ Substances P undergoing rapid combustion, substance 'Q' undergoing spontaneous combustion, whereas substance 'R' is undergoing explosion.
- Ⓒ Substance P and Q are undergoing spontaneous combustion, whereas 'R' is undergoing rapid combustion.
- Ⓓ Substance R is undergoing rapid combustion, substance Q is undergoing spontaneous combustion whereas substance 'P' is undergoing explosion.

Assertion-Reason Based Questions (Q37):

Read the two statements carefully and select the correct option given below.

- A:** Assertion and Reason both are correct and Reason is the correct explanation of Assertion
 - B:** Assertion and Reason both are correct and Reason is not the correct explanation of Assertion
 - C:** Assertion is correct but Reason is wrong
 - D:** Assertion is wrong but Reason is correct
- 37. Assertion (A):** One of the most reliable method to prevent metal objects from rust is electroplating.
Reason (R): Electroplating is the process of depositing a layer of metal onto another with the help of electricity.
- Ⓐ A
 - Ⓑ B
 - Ⓒ C
 - Ⓓ D
- 38.** Boojho and Paheli performed experiments taking similar bulbs and cells but two different solutions A and B as shown in figure.



They found that the bulb in the setup A glows more brightly as compared to that of the setup B. You would conclude that

- Ⓐ higher current is flowing through the circuit in setup A
- Ⓑ higher current is flowing through the circuit in setup B
- Ⓒ equal current is flowing through both the circuits
- Ⓓ the current flowing through the circuit in the two setup cannot be compared in this manner

Case Based Question (Q39–40)

Electrolysis is defined as a process of decomposing ionic compounds into their elements by passing a direct electric current through the compound in a fluid form. The cations are reduced at cathode and anions are oxidised at the anode. The main components that are required for conducting electrolysis are an electrolyte, electrodes, and some form of external power source is also needed. Electrolysis is usually done in a vessel named 'electrolytic cell' containing two electrodes (cathode and anode) connected to a direct current source and an electrolyte which is an ionic compound undergoing decomposition. In the process of electrolysis, there is an interchange of ions and atoms due to the addition or removal of electrons from the external circuit. Basically, on passing current, cations move to the cathode, take electrons from the cathode (given by the supply source-battery), and is discharged into the neutral atom. The neutral atom, if solid, is deposited on the cathode and if

gas, move upwards. This is a reduction process and the cation is, reduced at the cathode. At the same time anions, give up their extra electrons to the anode and is oxidised to neutral atoms at the anode. Electrons released by the anions travel across the electrolysis involves a simultaneous oxidation reaction at anode and a reduction reaction at the cathode.

39. Which of the following process is based on the principles of electrolysis?
- (A) Rusting (B) Colour change of electrolyte
(C) Electroplating (D) None of the above
40. Which of the following is a non-electrolyte?
- (A) Hydrochloric acid (B) Vinegar
(C) Alcohol (D) Sodium chloride solution
41. During electrolysis of copper sulphate solution using copper electrode, reaction at anode is :
- (A) $\text{H}_2\text{O} \rightleftharpoons \text{H}^+ + \text{OH}^-$ (B) $\text{Cu}^{2+} + 2\text{e}^- \rightarrow \text{Cu}$
(C) $\text{Cu} - 2\text{e}^- \rightarrow \text{Cu}^{++}$ (D) Oxygen at cathode as well as anode
42. During the electroplating of a iron spoon by silver, spoon and silver metals are kept respectively as follows :
- (A) Silver at cathode and spoon at anode (B) Silver at anode and spoon at any electrode
(C) Silver at anode and spoon at cathode (D) Silver at cathode and spoon at any electrode
43. A solution of chemical compound which does not conduct electric current and at the same time does not undergoes a chemical change is known as :
- (A) Conductor (B) Insulator (C) Non-Electrolyte (D) Electrolyte

Assertion-Reason Based Questions (Q44–Q46)

Read the two statements carefully and select the correct option given below.

- A:** Assertion and Reason both are correct and Reason is the correct explanation of Assertion
B: Assertion and Reason both are correct and Reason is not the correct explanation of Assertion
C: Assertion is correct but Reason is wrong
D: Assertion is wrong but Reason is correct
44. **Assertion (A):** Distilled water is very good conductor of electricity.
Reason (R): Glowing of a bulb is due to heating effect of current.
- (A) A (B) B (C) C (D) D
45. **Assertion (A):** LED means Light Emitting Diode.
Reason (R): LED is used to measure weak electric current
- (A) A (B) B (C) C (D) D
46. **Assertion (A):** The passage of an electric current through a solution causes chemical effect.
Reason (R): Most liquids that conduct electricity are solution of acid, basic and salts. These are decomposed to give new compound.
- (A) A (B) B (C) C (D) D
47. The negatively charged ion formed when a chemical compound is dissolved in water is called :
- (A) Anion (B) Cation (C) Cathode (D) Anode

48. The chemical compound which conducts electric current and decompose to give new compound is its aqueous solution is called _____. Positively charged ions in the solution are called_____.
- (A) Electrolysis, cathode (B) Electrode, anion
(C) Electrolyte, anion (D) Electrolyte, cation
49. Which gas has the highest contribution of global warming amongst the following?
(A) Ozone (B) Carbon dioxide (C) Methane (D) Nitrons oxide
50. Match the following items in column-I with column-II

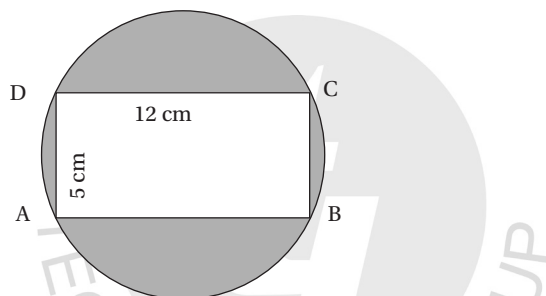
| Column-I | Column-II |
|--------------|-------------------------------|
| (i) LPG | (a) Compressed natural gas |
| (ii) CNG | (b) Inflammable substance |
| (iii) Petrol | (c) Liquefied petroleum gas |
| (iv) Sand | (d) Non-combustible substance |

- (A) (i) – (a), (ii) – (b), (iii) – (b), (iv) – (d)
(B) (i) – (c), (ii) – (a), (iii) – (b), (iv) – (d)
(C) (i) – (b), (ii) – (c), (iii) – (d), (iv) – (a)
(D) (i) – (c), (ii) – (a), (iii) – (d), (iv) – (b)

Mathematics

51. Find the solution of $\frac{x+6}{4} + \frac{x-3}{5} = \frac{5x-4}{8}$
- (A) 8 (B) -8 (C) 4 (D) none of these
52. How many diagonals does have in a regular hexagon ?
(A) 2 (B) 1 (C) 3 (D) none of these
53. Maximum possible exterior angle in a regular polygon is _____ .
(A) 70° (B) 60° (C) 90° (D) 120°
54. Cards are marked with numbers 1 to 25 are placed in the box and mixed thoroughly. One card is drawn at random from the box. What is the probability of getting a multiple of 5 ?
(A) 1 (B) 0 (C) $\frac{1}{25}$ (D) $\frac{1}{5}$
55. Raghu bought an almirah for ₹ 6250 and spent ₹ 375 on its repairs. Then he sold it for ₹ 6890. Find his gain or loss percent.
(A) 5% (B) 4% (C) 6% (D) $16\frac{2}{3}\%$
56. The compound interest on ₹ 30,000 at 7% per annum for a certain time is ₹ 4347. The time is
(A) 2 years (B) $2\frac{1}{2}$ years (C) 3 years (D) 4 years
57. A man bought an article and sold it at a gain of 10%. If he had bought it at 20% less and sold it for ₹ 10 more, he would have made profit of 40%. Find the C. P. of the article.
(A) ₹ 500 (B) ₹ 300 (C) ₹ 400 (D) ₹ 600

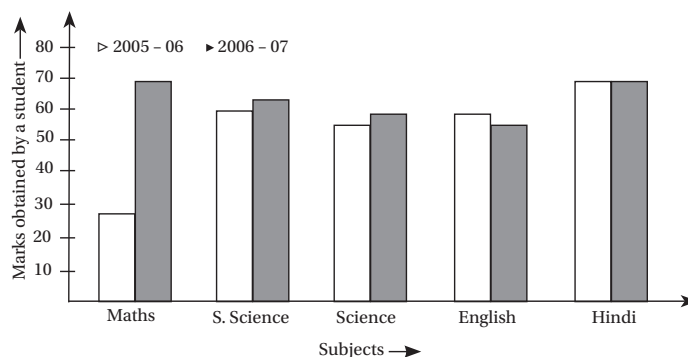
58. The number of faces of a square pyramid is _____ .
 (A) 4 (B) 5 (C) 6 (D) none of these
59. What will be the number of edges if there are 12 vertices and 20 faces ?
 (A) 32 (B) 28 (C) 30 (D) 42
60. Two dice are placed side by side with top faces 5 and 6. What is the total on the face opposite to the given numbers ?
 (A) 8 (B) 7 (C) 3 (D) 4
61. Two cubes each of edge 12 cm are joined. The total surface area of the resulting cuboid is
 (A) 140 cm^2 (B) 1440 cm^2 (C) 144 cm^2 (D) 72 cm^2
62. The diameter of a roller is 84 cm and its length is 120 cm. It takes 500 complete revolutions to move once over to level a playground. The area of the playground in m^2 is
 (A) 1584 (B) 1284 (C) 1384 (D) 1184
63. Find the area of the shaded region. Take $\pi = 3.14$



- (A) 75 cm^2 (B) 72 cm^2 (C) 70 cm^2 (D) none of these
64. A car can cover a distance of 522 km on 36 litres of petrol. How far can it travel on 14 litres of petrol ?
 (A) 230 km (B) 232 km (C) 203 km (D) none of these
65. 120 men have food provision for 200 days. After 5 days, 30 men died due to an cancer. How long will the remaining food last?
 (A) 260 days (B) 275 days (C) 203 days (D) none of these

Case Based Questions (66 - 68) :

Following bar graph shows marks obtained by a student in 2005 - 06 and 2006 - 07 subject wise.



Based on the above information, answer the following questions .

66. In which subject has the performance improved the most ?
 (A) Maths (B) Science (C) S. Science (D) none of these
67. In which subject has the performance deteriorated ?
 (A) English (B) Science (C) S. science (D) none of these
68. Find the marks obtained in science by a student in 2006 - 07 ?
 (A) 30 (B) 40 (C) 50 (D) 60

Assertion-Reason type Questions (69 – 70):

Direction : A statement of Assertion (A) is followed by a statement of Reason (R). Choose the correct option.

- A. Both assertion (A) and reason (R) are true and reason (R) is the correct explanation of assertion (A).
 B. Both assertion (A) and reason (R) are true and reason (R) is not the correct explanation of assertion (A).
 C. Assertion (A) is true but reason (R) is false.
 D. Assertion (A) is false but reason (R) is true.
69. **Assertion (A) :** One angle of a parallelogram is a right angle. The name of the quadrilateral is rectangle.
Reason (R) : A rectangle is a quadrilateral with four right angles.
 (A) A (B) B (C) C (D) D
70. **Assertion (A) :** The length and breadth of a rectangle are $(x + 4)$ cm and x cm respectively. The area of the rectangle is 140 cm^2 . Length and breadth may will get 14cm and 10 cm respectively.
Reason (R) : Area of rectangle = Length \times Breadth.
 (A) A (B) B (C) C (D) D
71. If $\left(x - \frac{1}{x}\right) = 5$, then the value of $\left(x^4 + \frac{1}{x^4}\right)$ is
 (A) 725 (B) 727 (C) 729 (D) none of these
72. The value of $\left\{\left(\frac{1}{3}\right)^{-3} - \left(\frac{1}{2}\right)^{-3}\right\} \div \left(\frac{1}{4}\right)^{-3}$ is
 (A) $\frac{19}{64}$ (B) $\frac{27}{16}$ (C) $\frac{64}{19}$ (D) none of these
73. If a and b varies inversely as each other and $a = 16$ when $b = 4$. Find b when $a = 8$.
 (A) 2 (B) 8 (C) 4 (D) none of these
74. The factors of $12x^2 - 7x + 1$ are
 (A) $(4x - 1)(3x - 1)$ (B) $(4x - 1)(3x + 1)$
 (C) $(4x + 1)(3x - 1)$ (D) $(4x + 1)(3x + 1)$
75. The coordinates of the three vertices of a rectangle ABCD are A(3, 2), B(-4, 2), C(-4, 5). Find the coordinates of fourth vertex D.
 (A) (3, 4) (B) (-3, 5) (C) (3, 5) (D) (4, 5)

Biology

76. Which of these is not a kharif crop?
 (A) Wheat (B) Rice (C) Maize (D) Soyabean
77. Which of these is the first step before growing a crop?
 (A) Ploughing (B) Sowing (C) Adding manure (D) Irrigation
78. Which of these does not prevent the growth of microorganisms?
 (A) Salt (B) Sugar (C) Water (D) Oil
79. The dengue virus spreads through_____
 (A) mosquitoes (B) houseflies (C) worms (D) cockroaches
80. Which of these can reproduce only inside the cells of another organisms?
 (A) bacteria (B) virus (C) protozoa (D) fungi
81. Which of the following reproduces by splitting into two?
 (A) *Hydra* (B) Frog (C) *Amoeba* (D) Mosquito
82. In which of these animals, does fertilization occur outside the body of the female parent?
 (A) Snake (B) Bird (C) Man (D) Fish
83. Choose the incorrect statement:
 (A) A sperm produces a zygote (B) Ovum is produced by the female gonad
 (C) A well developed human embryo is called a foetus (D) The foetus develops inside the uterus
84. Improper working of which of the following glands causes diabetes?
 (A) Pancreas (B) Thyroid (C) Pituitary (D) Adrenal
85. Which hormone controls metamorphosis in frogs?
 (A) Thyroxine (B) Adrenaline (C) Growth hormone (D) All
86. In humans, what is the stage at which the body becomes capable of reproduction?
 (A) Puberty (B) Menopause (C) At pregnancy (D) After a year of birth
87. The production of an ovum every 28-30 days in a woman is called _____.
 (A) Menarche (B) Menstruation (C) Placentation (D) Ovulation
88. Which of these is caused by deforestation?
 (A) Desertification (B) Global warming (C) Soil erosion (D) All of these
89. The plants found in a particular region are called _____.
 (A) Flora (B) Fauna (C) Biodiversity (D) Endemic species
90. Which of these animal species is extinct?
 (A) Asiatic lion (B) Leopard (C) Dodo (D) One-horned rhino

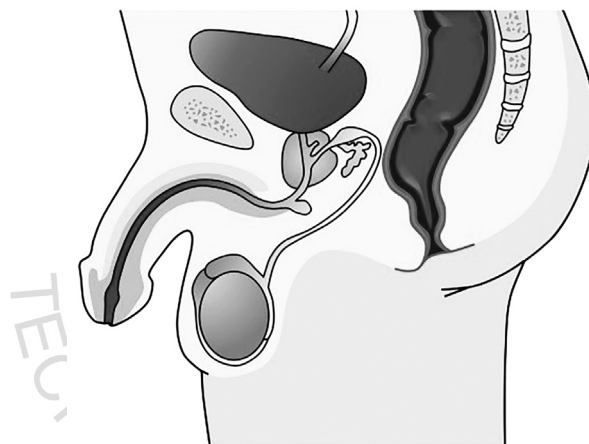
■ Assertion – Reason Based Questions: (91-95):

- A: Assertion and Reason both are correct and Reason is the correct explanation of Assertion.
 B: Assertion and Reason both are correct but Reason is not the correct explanation of Assertion.
 C: Assertion is correct but Reason is wrong.
 D: Assertion is wrong but Reason is correct.

91. **Assertion:** In crop rotation different crops are sown in the same field simultaneously.
Reason: Crop rotation helps to increase the fertility of soil.
92. **Assertion:** Biodiversity refers to the living and non-living things in an ecosystem.
Reason: A biosphere reserve helps to protect the biodiversity of an area.
93. **Assertion:** Some fungi are decomposers.
Reason: Decomposers feed on the dead and decaying organic matter.
94. **Assertion:** Sperms are unicellular structures.
Reason: Sperms swim towards the ovum.
95. **Assertion:** A woman cannot conceive after menopause.
Reason: The ovaries stop producing eggs when menopause is attained.

■ **Case Based Questions (96-100):**

Study the diagram of the male reproductive system given below and answer the following questions:



96. Choose the correct statement about the male gonad
- | | |
|--|------------------------------------|
| (A) Has a blunt tip and a short tail | (B) Is spherical in shape |
| (C) Has a pointed head and a long tail | (D) Has a pointed head but no tail |
97. The male gonads _____
- | | |
|--------------------------------------|---|
| (A) lie outside the abdominal cavity | (B) are protected by scrotal sacs |
| (C) produce sperms | (D) All the statements about gonads are correct |
98. Which part of the system produce a hormone during puberty?
- | | | | |
|------------|------------------|-----------|-------------|
| (A) Testes | (B) Vas deferens | (C) Penis | (D) Scrotum |
|------------|------------------|-----------|-------------|
99. Semen is
- | |
|---|
| (A) Sperms released through the testes into the penis |
| (B) Sperms released through the penis + urine |
| (C) Secretion of accessory reproductive glands |
| (D) Secretion of accessory reproductive glands + sperms |
100. Mitochondria is present in which part of sperm?
- | | | | |
|----------|----------|------------------|----------|
| (A) Head | (B) Neck | (C) Middle piece | (D) Tail |
|----------|----------|------------------|----------|