



Monthly Progressive Test

Class: IX

Subject: PCMB



Test Booklet No.: MPT-05

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 MPT05 12122025.
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. A car moves with uniform acceleration from 10 m/s to 25 m/s in 5 s. Calculate the acceleration.
 (A) 2 m/s^2 (B) 3 m/s^2 (C) 5 m/s^2 (D) 7 m/s^2
2. A boy applies a force of 30 N to move a box 4 m across a floor. What is the work done?
 (A) 60 J (B) 90 J (C) 120 Js (D) 150 J
3. A 4 kg object experiences an acceleration of 3 m/s^2 . What net force acts on it?
 (A) 7 N (B) 12 N (C) 16 N (D) 24 N
4. A sound wave travels 330 m/s. If its wavelength is 0.75 m, find its frequency.
 (A) 340 Hz (B) 440 Hz (C) 330 Hz (D) 220 Hz
5. The height at which the acceleration due to gravity becomes $g/9$ is
 (A) $\frac{R}{\sqrt{2}}$ (B) $\sqrt{2}$ (C) $2R$ (D) $\frac{R}{2}$
6. The shape of orbit of earth around the sun is
 (A) Circular (B) Parabola (C) Hyperbola (D) Elliptical
7. A body of mass 10 kg is lifted to a height of 5 m. ($g = 10 \text{ m/s}^2$) Calculate potential energy.
 (A) 50 J (B) 500 J (C) 100 J (D) 1000 J
8. A car travels 240 km in 4 hours and then 150 km in 3 hours. Find average speed.
 (A) 45 km/h (B) 55 km/h (C) 60 km/h (D) 70 km/h
9. Two sound waves in air wave length ratio 2 : 3; then their velocity ratio is
 (A) 1 : 1 (B) 3 : 2 (C) 2 : 3 (D) 4 : 9
10. A 1000 g metal block has volume 200 cm^3 . Find density.
 (A) 2 g/cm^3 (B) 5 g/cm^3 (C) 4 g/cm^3 (D) 3 g/cm^3
11. The dimensions of universal gravitation constant is
 (A) $[M^2L^3T^{-2}]$ (B) $[M^{-1}L^3T^{-2}]$ (C) $[M^{-2}L^3T^{-2}]$ (D) $[M^2L^{-3}T^{-2}]$
12. A body moves 30 m in 5 seconds. Find speed.
 (A) 5 m/s (B) 6 m/s (C) 4 m/s (D) 7 m/s
13. Force = 60 N, area = 3 m^2 . Find pressure.
 (A) 15 Pa (B) 20 Pa (C) 25 Pa (D) 30 Pa
14. A car uses 4 L of petrol to travel 60 km. How far will it travel using 10 L?
 (A) 120 km (B) 140 km (C) 150 km (D) 160 km
15. A fan rotates at 900 rpm. What is its frequency in Hz?
 (A) 10 Hz (B) 12 Hz (C) 15 Hz (D) 20 Hz

Assertion and Reason: (Q. No. 16 — Q. No. 19)

Directions: Read the following questions and choose any one of the following four responses.

- 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.

16. Assertion (A): Inertia depends on mass.

Reason (R): Heavier objects require more force to change their state of motion.

- A Both A and R are true, and R explains A
- B Both A and R are true, but R does not explain A
- C A is true but R is false
- D A is false but R is true

17. Assertion (A): Sound cannot travel in vacuum.

Reason (R): Sound needs a medium to propagate.

- A Both A and R are true, and R explains A
- B Both A and R are true, but R does not explain A
- C A is true but R is false
- D A is false but R is true

18. Assertion (A): A convex lens converges light rays.

Reason (R): A convex lens is thicker at the edges than at the centre.

- A Both A and R are true, and R explains A
- B Both A and R are true, but R does not explain A
- C A is true but R is false
- D A is false but R is true

19. Assertion (A): Acceleration occurs when velocity changes.

Reason (R): Acceleration is the rate of change of velocity.

- A Both A and R are true, and R explains A
- B Both A and R are true, but R does not explain A
- C A is true but R is false
- D A is false but R is true

Case-Based Questions (2 Cases × 3 Questions Each)

A student observes the motion of a ball rolling down an inclined plane. As it moves down, the speed increases with time, indicating accelerated motion. Measurements show the velocity increasing from 2 m/s to 8 m/s in 3 seconds.

20. The motion of the ball is:

- A Uniform
- B Non-uniform
- C Circular
- D Oscillatory

21. Acceleration of ball is:

- A 1 m/s^2
- B 2 m/s^2
- C 3 m/s^2
- D 6 m/s^2

22. Increase in speed suggests:

- A No force acting
- B Balanced forces
- C Unbalanced force acting
- D Object at rest

Case 2: If $x = at + bt^2 + c$ where x is the meter (m) and t is in hour (hr) then

23. Unit of a is

- A m/hr
- B m^2/hr
- C m/hr^2
- D hr

24. Unit of b is

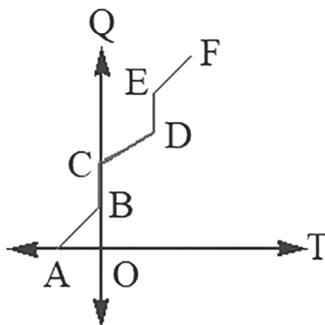
- A m/hr
- B m^2/hr
- C m/hr^2
- D hr

25. Unit of c is

- A m/hr
- B m^2/hr
- C m/hr^2
- D m

Chemistry

26. What is the maximum number of electrons that can be accommodated in the outermost orbit?
 (A) 2 (B) 8 (C) 3 (D) 18
27. Which of the following will have equal number of electrons?
 (A) Cl & Br (B) Na^+ & Mg^{2+} (C) Ar & Ne (D) Mg^{2+} & Ca^{2+}
28. What is the weight percentage of 4(M) Ca(OH)₂ solution? [Density of solution = 1.3 g/ml]
 (A) 11.6% (B) 48.5% (C) 38.5% (D) 22.8%
29. The molecular formula of nitre is _____
 (A) NaNO_3 (B) KNO_3 (C) KNO_2 (D) KCN
30. Valency of an atom is:
 (A) It is combining power to form a compound (B) Not indicate the formula of a compound
 (C) Always 1 (D) All of these
31. DHOKALA is a type of solution:
 (A) solid in solid (B) solid in gas
 (C) solid in liquid (D) gas in solid
32. A gaseous mixture of A, B and C is passed through water. The gaseous mixture B and C remains. If this gaseous mixture of B and C is subjected to sudden expansion followed by application of high pressure. B liquefies leaving behind C. Identify the set of gases.
 (A) $\text{SO}_3, \text{NO}_2, \text{O}_2$ (B) $\text{Cl}_2, \text{SO}_2, \text{H}_2$ (C) $\text{CO}_2, \text{CO}, \text{N}_2$ (D) $\text{NH}_3, \text{N}_2, \text{H}_2$
33. Grease spots from garments can be separated by a method of:
 (A) Chromatography (B) Solvent extraction
 (C) sublimation (D) Fractional crystallisation
34. Calculate number of molecules of water formed. When 4g hydrogen reacts with 20 g oxygen.
 Given: $2\text{H}_2 + \text{O}_2 \longrightarrow 2\text{H}_2\text{O}$; ($N_0 = \text{Avogadro no}$)
 (A) $\frac{36}{18} \times N_0$ (B) $\frac{45}{18} N_0$ (C) $\frac{22.5}{18} \times N_0$ (D) $\frac{18}{22.5} \times N_0$
35. During a phase transition of a substance the temperature (T) versus. What energy (Q) graph is shown below. Identify the regions of the graph which show an increase in only PE.



- (A) AB, BC (B) BC, DE
 (C) CD, EF (D) All the regions in the given graph

36. Filtration can be used if solution particle size is _____
 (A) $> 1000 \text{ \AA}$ (B) $= 100 \text{ \AA}$ (C) $< 1.0 \text{ \AA}$ (D) $< 10 \text{ \AA}$
37. Brownian movement is due to
 (A) Convection currents
 (B) Attractive forces between the particles of dispersed phase and the dispersion medium
 (C) Impact of particles of the dispersion medium on the particles of the dispersed phase
 (D) Heat changes in liquid state
38. Consider the equation $\text{C} + \text{O}_2 \longrightarrow \text{CO}_2$. If 3.011×10^{22} carbon atoms are reacting then what mass of CO_2 gas will be produced? [atomic mass: C = 12, O = 16, Avogadro number = 6.022×10^{23}]
 (A) 4.4 gm (B) 2.2 gm (C) 0.44 gm (D) 0.22 gm
39. What is the percentage of oxygen in calcium carbonate [atomic mass: Ca = 40, C = 12, O = 16]?
 (A) 24% (B) 52% (C) 48% (D) 36%
40. An element (X) has mass number 4 and atomic number 2. Find the valency of (X):
 (A) 4 (B) 2 (C) 3 (D) 0

ASSERTION AND REASON QUESTIONS (Q41 - 44):

Directions: Read the following questions and choose any one of the following four responses.

- 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.

41. **Assertion (A):** To determine atomic weight of an element, oxygen scale is considered.

Reason (R): Oxygen is a highly reactive molecule and it can react with most of the elements.

- (A) a (B) b (C) c (D) d

42. **Assertion (A):** 8 gm oxygen molecule (atomic mass : O = 16) is equal to 0.25 mole oxygen molecule.

Reason (R): Number of mole of a molecule = $\frac{\text{Given mass}}{\text{Molecular mass}}$

- (A) a (B) b (C) c (D) d

43. **Assertion (A):** Both 32g of SO_2 and 8g of CH_4 contain same number of molecules.

Reason (R): Equal moles of two compounds contain same number of molecules.

- (A) a (B) b (C) c (D) d

44. **Assertion (A):** Isobars are the atoms of different elements having same mass number but different atomic number.

Reason (R): Neutrons and protons are called nucleons.

- (A) a (B) b (C) c (D) d

CASE STUDY BASED QUESTION - I (Q.45 - Q. 47):

Read the passage given below and answer the questions that follow:

A mole is a collection of 6.022×10^{23} particles and the number 6.022×10^{23} is called Avogadro's number. The mass

of this number of atom in an element is equal to its gram atomic mass and mass of this number of molecules in a compounds equal to its gram molecular mass. The volume occupied by this number of molecules of a gas at N.T.P. is 22.4 C. When 6.022×10^{23} molecules of a substance are dissolved in 1L of solution. The solution is known as 1 molar solution.

45. Suppose the chemists would have chosen 10^{20} as the number of particles in a mole, the mass of 1 mole of oxygen gas would be:
 (A) 5.32×10^{-43} g (B) 5.32×10^{-3} g (C) 5.32×10^{-23} g (D) 5.32×10^3 g
46. Calculate the mass of 4 moles of Aluminium atom (Atomic Mass of Al = 27).
 (A) 52 g (B) 108 g (C) 27 g (D) None of these
47. How many atoms of sulphur are present in 0.1 mole of S₈ molecule? (Atomic Weight S = 32)
 (A) 2.56×10^{23} atom (B) 1.28×10^{23} atom (C) 4.817×10^{23} atom (D) 48.17×10^{23} atom

CASE STUDY BASED QUESTION- II (Q.48 – Q. 50):

The electronic configuration of atom is based on rules and guidelines by Bohr-Burry:

- Maximum number of electrons in a shell = $2n^2$
 - In outermost shell, number of electrons can be greater than two (2) only when its inner shell is filled according to $2n^2$ rules
 - The maximum number of electrons in outermost shell can be 8 and maximum number of electrons in 2nd loss shell can be 18.
48. Which of the following is the correct electronic configuration of Aluminium atom?
 (A) 2, 8, 2 (B) 2, 8, 3 (C) 8, 2, 3 (D) 2, 3, 8
49. What is the valency of sodium metal?
 (A) 1 (B) 2 (C) 3 (D) 4
50. Which of the following atom has 8 electron in the valence shell?
 (A) Ne₁₀ (B) K₁₉ (C) Ar₁₈ (D) Both (A) & (C)

Mathematics

51. A rectangular sheet of paper 40 cm × 22 cm, is rolled to form a hollow cylinder of height 40 cm. The radius of the cylinder (in cm) is
 (A) 3.5 (B) 7 (C) $\frac{80}{7}$ (D) 5
52. If h, S, V denote respectively the height, curved surface area and volume of a right circular cone then $\frac{3\pi Vh^3 + 9V^2}{S^2h^2}$ is equal to
 (A) 0 (B) 1 (C) 2 (D) 3
53. If a cone is cut into two parts by a horizontal plane passing through the mid point of its axis, the ratio of the volumes of upper and lower part is
 (A) 1 : 2 (B) 2 : 1 (C) 1 : 7 (D) 1 : 8

54. A cylinder is within the cube touching all vertical faces. A cone is inside the cylinder. If their heights are same with the same base, the ratio of their volumes $v_1 : v_2 : v_3$ is (v_1 , v_2 and v_3 be the respective volumes of cube, cylinder and cone).

- (A) 42 : 33 : 11 (B) 33 : 42 : 11 (C) 11 : 33 : 42 (D) none of these

55. The diameter of a sphere is decreased by 25%. By what % curved surface area decrease?

- (A) 43.75% (B) 40% (C) 53.75% (D) 50%

56. If $(3x - 1)^7 = a_7x^7 + a_6x^6 + a_5x^5 + \dots + a_1x + a_0$, then $a_7 + a_6 + a_5 + \dots + a_1 + a_0 =$

- (A) 0 (B) 1 (C) 128 (D) 64

57. The value of $(2021)^2 + (2022)^2 + (2023)^2 - 2021 \times 2022 - 2022 \times 2023 - 2021 \times 2023$ is

- (A) 6 (B) 3 (C) -3 (D) -6

58. In $\triangle ABC$ if D is a point in BC and divide it in the ratio 3 : 5. If $DC = 50$ then $\text{ar}(\triangle ADC) : \text{ar}(\triangle ABC) = ?$

- (A) 3 : 5 (B) 3 : 8 (C) 5 : 8 (D) 8 : 3

59. The figure formed by joining the consecutive midpoints of any rhombus is always.

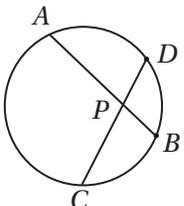
- (A) a square (B) a rhombus (C) a rectangle (D) none of these

60. Amit can row downstream 20 km in 2 hours, and the upstream 4 km in 2 hours. The speed of rowing in still water will be

- (A) 6 km/hr (B) 4 km/hr (C) 3 km/hr (D) 7 km/hr

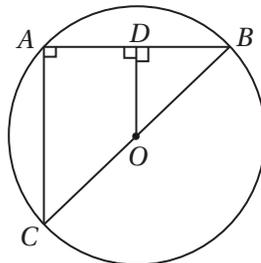
61. The straight line passing through the points $(0,0)$, $(-1,1)$ and $(1,-1)$ has the equation

- (A) $2 - x = 3y$ (B) $y = x$ (C) $2x - y = 0$ (D) $x + y = 0$

62.  In the adjoining figure two chords AB and CD of a circle intersect at P . If $AB = CD$ then

- (A) $\widehat{AB} > \widehat{CB}$ (B) $\widehat{AD} > \widehat{CB}$ (C) $\widehat{AD} = \widehat{CB}$ (D) none of these

63. In the adjoining figure, $OD \perp AB$, O is the centre. Then $CA : OD = ?$



- (A) 1 : 2 (B) 2 : 1 (C) 3 : 2 (D) 2 : 3

64. If $a = \frac{1}{3 - 2\sqrt{2}}$, $b = \frac{1}{3 + 2\sqrt{2}}$ then the value of $a^2 + b^2$ is

- (A) 34 (B) 35 (C) 36 (D) 37

65. $\frac{2^{n+4} - 2(2^n)}{2(2^{n+3})} + 2^{-3}$ is equal to :

- (A) 2^{n+1} (B) $-2^{n+1} + \frac{1}{8}$ (C) $\frac{9}{8} - 2^n$ (D) 1

Assertion Reasoning Based Questions [Q.62–Q.65] :

Directions:

Each of these questions contains two statements Assertion (A) and Reason (R). Each of the questions has four alternative choices, any one of the which is the correct answer. You have to select one of the codes (a), (b), (c) and (d) given below.

- (a) A is true, R is true, R is a correct explanation of A
 (b) A is true, R is true, R is not correct explanation of A
 (c) A is true, R is false
 (d) A is false R is true

66. **Assertion (A) :** If the surface area of a sphere is $36\pi \text{ cm}^2$ then its volume is $36\pi \text{ cm}^3$

Reason (R) : Volume of a sphere is $r^3 \text{ unit}^3$.

- (A) (a) (B) (b) (C) (c) (D) (d)

67. **Assertion (A) :** If $ABCD$ is a parallelogram and BC is produced to a point Q such that $AD = CQ$. If AQ intersects DC to P , then $\text{ar}(BPC) = \text{ar}(DPQ)$.

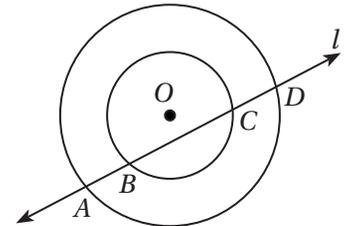
Reason (R) : Triangles on the same base and between the same parallels are equal in area.

- (A) (a) (B) (b) (C) (c) (D) (d)

68. **Assertion (A) :** If a line intersects two concentric at the points A, B, C and D then $AB = CD$.

Reason (R) : Perpendicular drawn from the centre bisects the chord.

- (A) (a) (B) (b)
 (C) (c) (D) (d)



69. **Assertion (A) :** The total number of integral pairs (x,y) satisfying, the equation $x + y = xy$ is 2.

Reason (R) : Using Simon's Favorite Factoring Trick (SFFT), we get the solution set = $\{(0,0), (1,1)\}$

- (A) (a) (B) (b) (C) (c) (D) (d)

Case Study Based Questions (Q.20–Q.22) :

Case I : Infront of our school, there is a triangular park with sides measuring 120 m, 160 m, and 200 m. One day our math teacher took all the students from class IX to the park and asked us a few questions about it.

Based on this information answer the following questions.

70. Calculate S (semiperimeter)

- (A) 204 m (B) 240 m (C) 200 m (D) 400 m

71. $\text{ar}(\Delta PQR) = ?$

- (A) 900 m^2 (B) 9600 m^2 (C) 860 m^2 (D) none of these

72. What will be the total cost of fencing if the cost per meter of fencing is ₹ 10?

- (A) ₹ 2040 (B) ₹ 9600 (C) ₹ 4800 (D) none of these

Case II : Factorization is the process of breaking down a number or an algebraic expression into a product of its factors, which are simpler numbers or expressions. For example, the number 15 can be factorized as 3×5 where 3 and 5 factors. For algebraic expressions, a quadratic expression $x^2 - 4$ can be factorized into $(x + 2)(x - 2)$.

Answer the following questions :

73. If $a + b + c = 0$ then $a^3 + b^3 + c^3 = ?$
 (A) 0 (B) abc (C) $2abc$ (D) $3abc$
74. If $a + b + c = 0$ then $\left(\frac{a^2}{bc} + \frac{b^2}{ca} + \frac{c^2}{ab}\right) = ?$
 (A) 1 (B) 0 (C) -1 (D) 3
75. If $x + y + z = 9$, $xy + yz + zx = 23$ then the value of $(x^3 + y^3 + z^3 - 3xyz) = ?$
 (A) 108 (B) 207 (C) 669 (D) 729

Biology

76. Cereals and pulses are rich sources of _____ and _____, respectively.
 (A) proteins and fats (B) proteins and carbohydrates
 (C) carbohydrates and proteins (D) carbohydrates and fats
77. Majority of the plant nutrients come from:
 (A) Air (B) Water (C) Soil (D) All of the above
78. Crops which grow in hot and wet conditions are _____
 (A) Rabi crops (B) Kharif crops
 (C) Zaid crops (D) not monsoon dependent
79. Which macronutrient does a plant obtain from air?
 (A) Carbon (B) Oxygen (C) Hydrogen (D) All of the above
80. Crop production management comprises of :
 (A) Nutrient management (B) Irrigation
 (C) Cropping patterns (D) All of the above
81. What is the name given to the crops which are grown only to be mulched by ploughing and mixing with the soil to improve soil fertility?
 (A) Manure (B) Biofertiliser (C) Vermicompost (D) None of the above
82. To solve the food problem of the country, which among the following is necessary?
 (A) Increased production and storage of food grains
 (B) Easy access of people to the food grain
 (C) People should be financially capable to buy the food grains
 (D) All of the above
83. Find out the correct sentence :
 (i) Hybridisation means crossing between genetically dissimilar plants
 (ii) Cross between two varieties is called inter specific hybridisation

(iii) Introducing genes of desired character into a seed gives genetically modified crop

(iv) Cross between plants of two species is called intervarietal hybridisation

- Ⓐ i and iii Ⓑ ii and iv Ⓒ ii and iii Ⓓ iii and iv

84. Which of the following species of honey bee is an Italian species?

- Ⓐ *Apis dorsata* Ⓑ *Apis floralae* Ⓒ *Apis cerana indica* Ⓓ *Apis mellifera*

85. Poultry fowls are susceptible to which of the following pathogens?

- Ⓐ Bacteria Ⓑ Virus Ⓒ Fungi Ⓓ All of the above

86. Which is the most important source of food and fodder?

- Ⓐ Algae Ⓑ Fungi Ⓒ Lichen Ⓓ Cereal

87. Application of nitrogenous manure to a plant causes—

- Ⓐ vigorous vegetative growth Ⓑ early flowering
Ⓒ early fruiting Ⓓ growth retardation due to toxicity of ammonia

88. Cereals are:

- Ⓐ High nutrient demanding crops Ⓑ Low nutrient demanding crops
Ⓒ Drought resistant crops Ⓓ Salt tolerant crops

89. By alternating deep and shallow rooted crops,

- Ⓐ growth of earthworms is encouraged Ⓑ growth of nitrogen fixing bacteria is promoted
Ⓒ soil nutrients are optimally utilised Ⓓ none of the above

90. Which of the following is not a drought animal?

- Ⓐ Cow Ⓑ Buffalo Ⓒ Pig Ⓓ Horse

The questions 91 to 94 have two statements - Assertion (A) and Reason (R). Of the two statements, mark the correct answer from the options given below:

A. Both A and R are true and R is the correct explanation of A.

B. Both A and R are true but R is not the correct explanation of A.

C. A is true but R is false.

D. A is false but R is true.

91. **Assertion** - The dairy cattle is given a balanced food.

Reason - The food contains roughage, concentrates and water in proportionate amounts.

- Ⓐ A Ⓑ B Ⓒ C Ⓓ D

92. **Assertion** - Exotic breeds mean varieties of other countries or foreign breeds.

Reason - White Leghorn is a very popular exotic breed of buffalo.

- Ⓐ A Ⓑ B Ⓒ C Ⓓ D

93. **Assertion** - Irrigation is advantageous over natural rain water supplies.

Reason - Rainfall is unpredictable, but irrigation is regular and reliable.

- Ⓐ A Ⓑ B Ⓒ C Ⓓ D

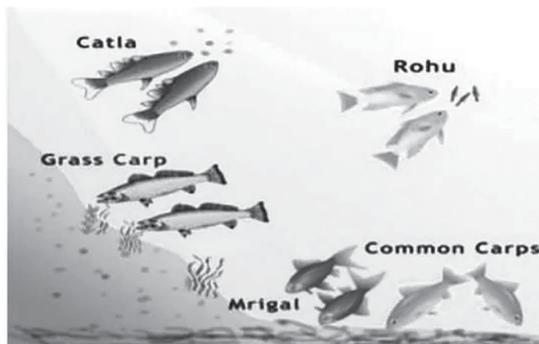
94. **Assertion** - Italian bee is gentle in nature.

Reason - Italian bee has a good honey collection capacity.

- Ⓐ A Ⓑ B Ⓒ C Ⓓ D

Case based Question (95-97):

Study the given diagram and answer the following questions:



95. The picture given above represents:
 (A) Capture fishery (B) Integrated farming (C) Composite fish culture (D) Common fish culture
96. What is the objective of having different fish species with varying feeding habits in the same pond?
 (A) To prevent over population of one particular species
 (B) To reduce the need for artificial feeding
 (C) To promote faster growth for all the species of fishes involved
 (D) To ensure effective utilisation of all the available food in the pond
97. Select a disadvantage of the process shown in the picture.
 (A) Some fishes rear only during the monsoons
 (B) Difficulty in recognising which seed belongs to which species
 (C) Lack of availability of good quality seeds
 (D) All of the above

Case Based Question (98-100):

Read the given passage and answer the following questions:

The deficiency of plant nutrients and organic matter in the soil is made up by adding manures and fertilizers to the soil of crop fields. Both manures and fertilizers are major sources of enhancing the fertility of soil and so these are used extensively in crop production.

98. Select the pair of correct sentences about manure.
 (i) Manure contains large quantities of organic matter and small quantities of nutrients.
 (ii) Manure increases the water holding capacity of soil.
 (iii) Manure causes washing away of soil.
 (iv) Its excessive use pollutes environment because it is made of animal wastes.
 (A) (i) and (ii) (B) (i) and (iv) (C) (iii) and (iv) (D) (ii) and (iv)
99. Which one of the following nutrients is not available in fertilizers?
 (A) Nitrogen (B) Phosphorus (C) Potassium (D) Iron
100. Which of the following statements is incorrect about a fertiliser?
 (A) It is nutrient specific (B) It is required in small quantities
 (C) It adds humus to the soil (D) It is easy to transport