

LEAP SAMPLE TEST PAPER (VIII STD)

Time : 1 hrs.

Maximum Marks : 120

Name : _____

Roll No. : _____

- NOTE:**
1. There are 4 Sections (1) Physics - 7 Q. (2) Chemistry - 7 Q. (3) Mathematics - 8 Q. (4) Biology - 8 Q
 2. Each section consists of MCQ with 4 options out of which only one option is correct.
 3. There is negative marking scheme for (4R-1W) means that for correct answer 4 marks will be awarded & for wrong answer 1 mark will be deducted.
 4. No mark will be awarded or deducted for unanswered question.

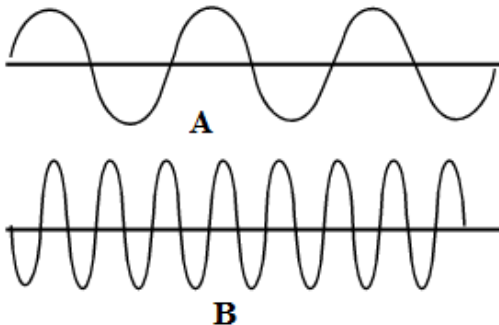
PHYSICS

NOTE: There are 7 questions in this part.

7 × 4 = 28 Marks (4R - 1W)

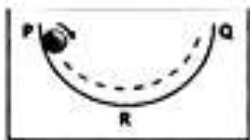
CHOOSE THE CORRECT OPTION:

Q.1) Identify the correct representation of sound wave :-



- (A) A – shrill sound , B – flat sound (B) A - high pitch , B - low pitch
- (C) A - low pitch , B - high pitch (D) None
- Q.2) P and Q are two forces applied on object in the same direction, then the resultant force acting on the object equal to:
- (A) P - Q (B) Zero (C) P+Q (D) P × Q
- Q.3) What causes the atmospheric pressure?
- (A) The sky above our head
- (B) The air surrounding the earth
- (C) The gravitational force of the sun and other particles
- (D) The mass of the earth

- Q.4)** School bags have wide straps so as to:
- (i) Increase the pressure on the shoulder.
 - (ii) Decrease the pressure on the shoulder.
 - (iii) Make the bag's weight fall over a small area of the shoulder.
 - (iv) Make the bag's weight fall over a large area of the shoulder
- (A) (ii) and (iii) (B) (i) and (iii) (C) (i) and (ii) (D) (ii) and (iv)
- Q.5)** Harish rolled a small steel ball at one edge of the glass bowl; as shown below. If there is no friction between the surfaces of the ball and the bowl, what will happen to the ball?



- (A) The ball will roll out of the glass bowl near edge 'Q'.
 - (B) It will stop at centre point 'R' after a number of to –and –for motion.
 - (C) It will keep moving between point 'P' and 'Q' and will never stop.
 - (D) It will not move at all since friction is required for movement.
- Q.6)** The walls of a dam are thickened so as to with stand :
- (A) Pressure exerted by the weight of dam
 - (B) Pressure exerted by the stored water
 - (C) Both (A) and (B)
 - (D) None of these
- Q.7)** More is the amount of water vapour present in the air :
- (A) More is the rate of evaporation
 - (B) Lesser the rate of evaporation
 - (C) There is no change in the rate of evaporation
 - (D) None of these

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CHEMISTRY

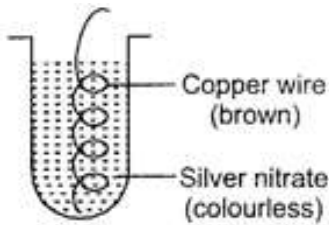
NOTE: There are 7 questions in this part.

7 × 4 = 28 Marks (4R – 1W)

CHOOSE THE CORRECT OPTION:

- Q.8)** Pre-weighed pieces of cloth of nylon, cotton, silk and wool of equal measurements are taken and soaked in a beaker filled with water. After a few minutes, the cloth pieces were taken out of the beaker and weighed again. Which of the following options places them in the correct order of their final weights?
- (A) Wool > Silk > Nylon > Cotton
 - (B) Cotton > Silk > Nylon > Wool
 - (C) Silk > Wool > Cotton > Nylon
 - (D) Wool > Cotton > Silk > Nylon

Q.9) Vidisha placed a copper wire in silver nitrate solution as shown in the figure.



Which of the following represents the correct observation?

- (A) The colour of the solution turned blue and precipitate of solid silver was obtained.
- (B) Colour of solution turned green and copper wire turned blue.
- (C) There was no change in the colour of solution or colour of the wire.
- (D) Colour of the solution became silver and there was no change in the colour of copper wire.

Q.10) A piece of paper wrapped around an aluminium pipe does not catch fire easily. Which of the following reasons supports the above information?

- (A) Paper is non-combustible in nature
- (B) Aluminium is non-combustible in nature
- (C) Aluminium pipe does not attain its ignition temperature
- (D) Paper wrapped around the pipe does not attain its ignition temperature.

Q.11) Read the given statements and mark the appropriate answer.

Statement 1: Polyester is synthesized from petrochemicals by linking ester units.

Statement 2: Polyester is a natural fibre

- (A) soil erosion (B) floods (C) loss of top soil (D) all of the above

Q.12) What does the blue zone in an L.P.G. flame indicate?

- (A) Unburnt vapours (B) Partial decomposition
- (C) Moderately hot (D) Hottest zone of complete combustion

Q.13) Sulphur dioxide bleaches colouring matter by

- (A) Dehydration (B) Oxidation (C) Decomposition (D) Reduction

Q.14) Largest number of molecules are present in

- (A) 44 gm of carbon dioxide (B) 28 gm of carbon monoxide
- (C) 36 gm of water (D) 64 gm of sulphur dioxide

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MATHEMATICS

NOTE: There are 8 questions in this part.

8 × 4 = 32 Marks (4R – 1W)

CHOOSE THE CORRECT OPTION:

Q.15) Which of the following is equal to 25?

(A) $\frac{(0.22)^2}{0.2 \times (2.2)^2}$ (B) $\frac{(0.022)^2}{2.2 \times 0.022}$ (C) $\frac{(2.2)^2}{22^2 \times (0.02)^2}$ (D) $\frac{(0.22)^2}{22^2 \times 0.02}$

Q.16) If $\left(\frac{1}{16}\right)^{4-3x} \times 8^{x-2} = (0.25)^x$, then find the value of $\frac{17x}{22} + 1$

(A) 2 (B) $\frac{39}{22}$ (C) 1 (D) $\frac{22}{17}$

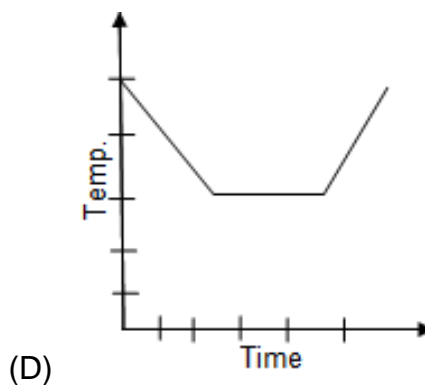
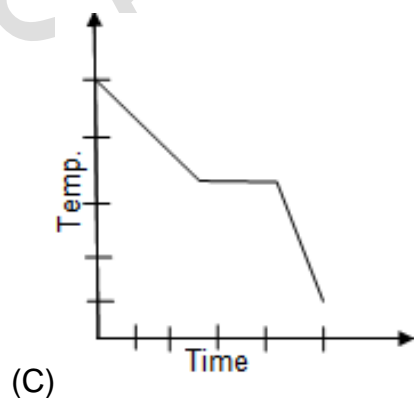
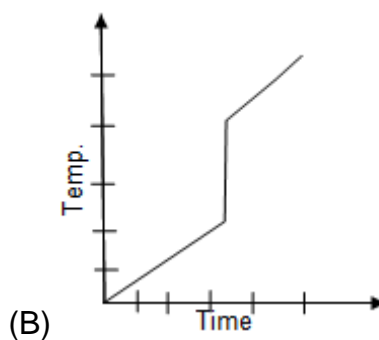
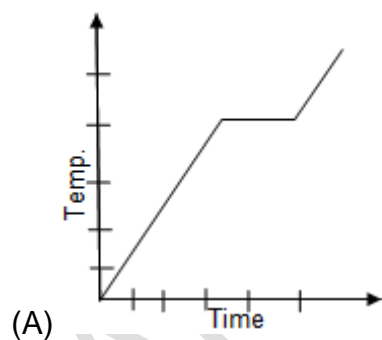
Q.17) Given that the number 67y19 is divisible by 9, where y is a single digit, what is the least possible value of y.

(A) 3 (B) 9 (C) 7 (D) 4

Q.18) Which of the following rational numbers does not lie between $\frac{1}{4}$ and $\frac{2}{3}$?

(A) $\frac{1}{2}$ (B) $\frac{1}{3}$ (C) $\frac{14}{24}$ (D) $\frac{18}{24}$

Q.19) Which of the following graphs cannot be a time temperature graph



- Q.20)** How many cubes of volume 216cm^3 can be obtained from a cube whose side is 36 cm?
- (A) 216 (B) 125 (C) 729 (D) 343
- Q.21)** The numerator and the denominator of rational number are in the ratio 5:7. When 6 is added to both the numerator and denominator, the ratio becomes 4:5. What is the rational number?
- (A) $\frac{7}{5}$ (B) $\frac{5}{7}$ (C) $\frac{2}{5}$ (D) $\frac{13}{14}$
- Q.22)** If $x^2 + \frac{1}{x^2} = \frac{17}{4}$ then find the value of $\frac{2}{5}\left(x + \frac{1}{x}\right) + \left(x - \frac{1}{x}\right)$
- (A) $\frac{3}{2}$ (B) $\frac{25}{4}$ (C) $\frac{5}{2}$ (D) $\frac{9}{4}$
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BIOLOGY

NOTE: There are 8 questions in this part.

8 × 4 = 32 Marks (4R – 1W)

CHOOSE THE CORRECT OPTION:

- Q.23)** When milk is converted into curd _____ acid is produced.
- (A) Sulphuric (B) Acetic (C) Lactic (D) Hydrochloric
- Q.24)** Cattles are infected by the _____
- (A) virus polia (B) virus wilt
- (C) virus bacteriophage (D) virus picorna
- Q.25)** Due to _____ the oxygen level of water is depleted?
- (A) decomposing matter (B) mud
- (C) aquatic weeds (D) fungus
- Q.26)** The grana and stroma are the parts of which cell organelles?
- (A) mitochondria (B) chloroplast (C) ribosome (D) Golgi bodies

Q.27) _____ in eukaryotes is separated from the cytoplasm by double layered membrane and it directs the life process of the cell.

- (A) Golgi apparatus (B) nucleus
(C) lysosome (D) ribosome

Q.28) Protein Catalysts of chemical reactions in biological organisms are called

- (A) Enzymes (B) Hormones (C) Connective Fluids (D) Vitamin

Q.29) Pigment present in red blood corpuscles.

- (A) Heamoglobin (B) Chlorophyll (C) Xanthophyll (D) Porphyrin

Q.30) Foot and mouth disease of cattle in caused by

- (A) Fungi (B) Virus (C) Algae (D) None of these

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LEAP SAMPLE ANSWER KEY (VIII STD)

1	C	16	A
2	C	17	D
3	B	18	D
4	D	19	B
5	C	20	A
6	B	21	B
7	B	22	C
8	D	23	C
9	A	24	D
10	D	25	C
11	C	26	B
12	D	27	B
13	D	28	A
14	C	29	A
15	C	30	B

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