LEAP SAMPLE TEST PAPER (VII 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) Which of the following is false?

(A) Black is good absorber of radiation.

(B) We wear white to keep ourselves warm during winter

(C) Black is good conductor of heat.
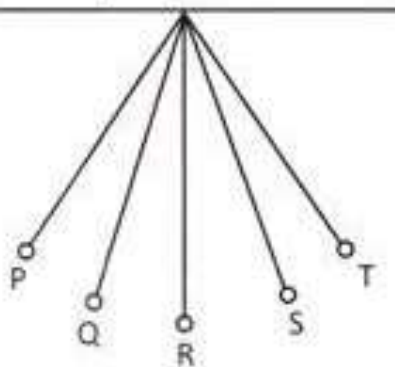
(D) Black is good emitter of radiation

Q.2) 1 m/s = _____ km /h

(A) $\dfrac{50}{3}$ (B) $\dfrac{3}{50}$ (C) $\dfrac{5}{18}$ (D) $\dfrac{18}{5}$

Q.3) Clocks and watches for measuring time are based on the principle of _____ motion

(A) Rectilinear   (B) Rotational

(C) Non-periodic   (D) Periodic

Q.4) In a simple pendulum if time taken by the bob to move from P to Q is 2s and from Q to R 2s. The time period of the given pendulum is:
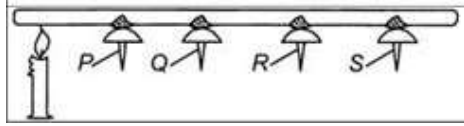

(A) 8 seconds   (B) 12 seconds   (C) 16 seconds   (D) 4 seconds

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Q.5) Observe the given experiment and answer the following questions.

Paper pins are struck to a metal rod with wax and a lighted candle is kept below the rod as shown in the diagram below:-

What does the experiment illustrate?

(A) Rod expands when heated

(B) The candle flame conducts heat

(C) The thumbtacks expand when heated

(D) Heat gets transferred from hot part of a body to cold part.

Q.6) Specific heat of water is

(A) 1 cal/g⁰C   (B) $\frac{1}{2}$ cal/g⁰C   (C) 1 cal/kg⁰C   (D) 3 cal/g⁰C

Q.7) A steam engine converts

(A) heat energy into sound energy   (B) heat energy into mechanical energy

(C) mechanical energy into heat energy   (D) electrical energy into sound energy

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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) Corrosion of iron is termed as

(A) Physical change (B) chemical change   (C) rusting   (D) both B and C

Q.9) Soil best suited for plant growth

(A) clay   (B) loam   (C) sandy   (D) gravel

Q.10) _____ can not hold much water

(A) clay soil   (B) loamy soil   (C) sandy soil   (D) silt soil

Q.11) Deforestation causes

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

Q.12) In physical change mass of the substance

(A) can be increased   (B) do not change

(C) change slightly   (D) either increase or decreases

Q.13) Sulphur exhibits the valency

(A) 2, 4   (B) 3, 5   (C) 2, 4, 6   (D) 1,2

Q.14) Which of the following elements exhibit variable valency ?

(A) Aluminium   (B) Lead   (C) Zinc   (D) Hydrogen

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MATHEMATICS

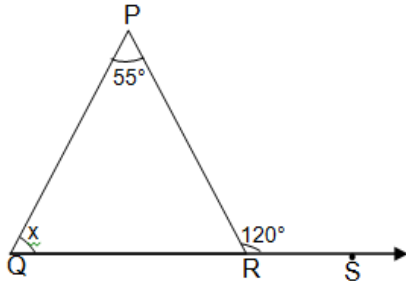**NOTE:** There are 8 questions in this part.

8 × 4 = 32 Marks (4R – 1W)

CHOOSE THE CORRECT OPTION:

Q.15) Find the value of y if (y-20) and (y+30) are the measures of complementary angles

    (A) 10   (B) 20   (C) 30   (D) 40

Q.16) In $\triangle$PQR, the value of x is

    (A) 55°   (B) 120°   (C) (120-55)°   (D) (120+55)°

Q.17) $\dfrac{3}{13} \div \left(\dfrac{-4}{65}\right) = $ ____

    (A) $\dfrac{15}{4}$ (B) $\dfrac{-15}{4}$ (C) $\dfrac{12}{845}$ (D) $\dfrac{-12}{845}$

Q.18) $(-7)^{12} \div (-7)^{-5} = $ _____

    (A) $(-7)^7$ (B) $(-7)^{-60}$ (C) 1   (D) $(-7)^{17}$

Q.19) If $\angle A$ and $\angle B$ are supplementary angles and $m\angle B = (x + 20)°$ then what would be $m\angle A = ?$

    (A) 120°   (B) $(160 - x)°$ (C) 160°   (D) x°

Q.20) If $Z = 10$ then find the value of $Z^3 - 3(Z - 10)$

    (A) 1000   (B) 100   (C) 997   (D) 0

Q.21) Subtract $(-m^2 + 5mn)$ from $(4m^2 - 3mn)$

    (A) $3mn^2 - 2mn$ (B) $3m^2 + 2mn$ (C) $5m^2 - 8mn$ (D) $5m^2 + 8mn$

Q.22) $45 \div 5 + 20 \times 4 - 12 = $ ____

    (A) 90   (B) 77   (C) 42   (D) 104

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BIOLOGY

CHOOSE THE CORRECT OPTION:

Q.23) The animal that remain inactive during the day and come out at night are called

(A) terrestrial   (B) Nocturnal   (C) Diurnal   (D) amphibian

Q.24) An animal is taken to polar region. Which of the following adaptive characteristics may help it to survive in the raw environment?

(A) Growth of thick and less hairy skin   (B) Sharp beaks and strong claws

(C) growth of thick fur on its skin   (D) Light weight wings to fly

Q.25) A heterotrophs is an organism that derives its energy from

(A) light   (B) inorganic molecular

(C) organic molecules   (D) Heat

Q.26) The word 'Sapro' means

(A) cell sap   (B) dead   (C) others   (D) Rottern

Q.27) The by product of photosynthesis is

(A) organic compound   (B) oxygen

(C) water   (D) energy

Q.28) Which of the following is an example of a non-biodegradable thing ?

(A) Dead Leaves   (B) Human Hair   (C) Blood   (D) Cow Dung

Q.29) The gas which DOES NOT contribute to Global Warming is

(A) CO_2 (B) H_2O vapours   (C) CH_4 (D) O_2

Q.30) The best method of irrigation is

(A) tubewell   (B) sprinkler system   (C) drip irrigation   (D) canal system

□□□

LEAP SAMPLE ANSWER KEY (VII STD)

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

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