RS-1

FIRST REVISION TEST - 2025 SCIENCE

10	~	Std
No.		JLU

Time: 3.00 Hours

Marks: 75

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Note: (i) Answer All the questions.

12 X 1 = 12

(ii) Choose the most appropriate answer from the given four alternatives and write option code and the corresponding answer.

- Impulse is equals to 1.
 - a) rate of change of momentum
- b) rate of force and time
- c) change of momentum
- d) rate of change of mass
- If VB, VG, VR be the velocity of blue, green and red light respectively in a glass prism, 2. then which of the following statement gives the correct relation?
 - a) VB = VG = VR
- b) VB > VG > VR c) VB < VG < VR
- d) VB < VG > VR

- Kilowatt hour is the unit of 3.
 - a) resistivity b) conductivity c) electrical energy d) electrical power
- 4. A 25% alcohol solution means
 - a) 25 ml alcohol in 100 ml of water
- b) 25 ml alcohol in 25 ml of water
- c) 25 ml alcohol in 75 ml of water
- d) 75 ml alcohol in 25 ml of water

- 5. $H_{2(g)} + Cl_{29(g)} \rightarrow 2HCl_{(g)}$
 - (a) Decomposition Reaction
- (b) Combination Reaction
- (c) Single Displacement Reaction
- (d) Double Displacement Reaction
- 6. $C_2H_5OH + 3O_2 \rightarrow 2CO_2 + 3H_2O$ is a:
 - (a) Reduction of ethanol
- (b) Combustion of ethanol
- (c) Oxidation of ethanoic acid
- (d) Oxidation of ethanol
- The segments of leech are known as 7.
 - a) Metameres (somites)
- b) Proglottids
- c) Strobila d) All the above

- Vomiting centre is located in 8.
 - (a) medulla oblongata
- (b) stomach (c) cerebrum (d) hypothalamus
- Male gametes in angiosperms are formed by the division of _

 - a) Generative cell b) Vegetative cell c) Microspore mother cell d) Microspore
- In a hexaploid wheat $(2n = 6 \times = 42)$ the haploid (n) and the basic(x) number of 10. chromosomes respectively are
 - a) n = 7 and x = 21

b) n = 21 and x = 21

c) n = 7 and x = 7

9.

- d) n = 21 and x = 7
- Metastasis is associated with 11.
 - a) Malignant tumour
- b) Benign tumour

c) Both (a) and (b)

- d) Crown gall tumour
- Which is used to edit programs? 12.
 - a) Inkscape b) script editor c) stage d) sprite

PART - II

Note: Answer any seven questions. Question No.22 is compulsory, 7 X 2 = 14

- 3. Define the unit of current.
- Match the following. 4.

Column I			Column II	
(a)	Co - 60	(i).	Age of fossil	
(b)	1 - 131	(ii)	Function of Heart	
(c)	Na -11	(iii)	Leukemia	
(d)	C-14	(iv)	Thyroid disease	

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- When an aqueous solution of potassium chloride is added to an aqueous solution of silver nitrate, a white precipitate is formed. Give the chemical equation of this reaction.
- Name the simplest ketone and give its structural formula.
- What are heart sounds? How are they produced?
- Name the parts of the hindbrain.
- Identify the parts A, B, C and D.



Fill in the blanks.

7.

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2.

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5.

- (i) The characters developed by the animals during their life time, in response to the environmental changes are called
- (ii) The forelimb of bat and human are examples of organs.
- Name three improved characteristics of wheat that helped India to achieve high productivity.
- A solution is prepared by dissolving 45 g of sugar in 180 g of water. Calculate the mass percentage of solute.

PART - III

Note: Answer any seven questions. Question No.32 is compulsory. 7 X 4 = 28

- What are the types of inertia? Give an example for each type.
- (i) Explain why the ceilings of concert halls are curved.
 - (ii) Mention two cases in which there is no Doppler effect in sound?
- (i) What is stellar energy?
 - (ii) Give any two uses of radio isotopes in the field of agriculture?
- How does pH play an important role in everyday life?
- (i) Give an example each
 - 1. gas in liquid; 2. solid in liquid; 3. solid in solid; 4. gas in gas.
 - (ii) The aquatic animals live more in a cold region. Why?
 - (i) Differentiate Aerobic and Anaerobic respiration (Any 3 only)
 - (ii) Write the name of the confirmatory test for AIDS.
 - Enumerate the importance of forest.
 - Write the physiological effects of gibberellins.
 - (i) What do you understand by the term phenotype and genotype?
 - (ii) What are allosomes?
- 2. An electric iron consumes energy at the rate of 420 W when heating is at the maximum rate and 180 W when heating is at the minimum rate. The applied voltage is 220 V. What is the current in each case?

PART - IV

- Note: Answer all the questions. Draw diagrams wherever necessary. 3X7=21
- (a) (i) Why a spanner with a long handle is preferred to tighten screws in heavy vehicles? (ii) Describe rocket propulsion. (iii) Write the expansion for LED. (OR)
 - (b) i) List any five properties of light? ii) State Snell's law.
 - (a) (i) Give the salient features of "Modern atomic theory".
 - (ii) Find the percentage of nitrogen in ammonia. (OR)
 - (b) (i) Differentiate soaps and detergents.
 - (ii) What are the metals used in the Duralumin alloy?
 - (a) (i) Classify neurons based on its structure.
 - (ii) Write the dental formula of rabbit. (OR)
 - (b) (i) What are the effects of hybrid vigour in animals.
 - (ii) Why is euploidy considered to be advantageous to both plants and animals?

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