RS-1

FIRST REVISION TEST - 2025

SCIENCE 10 - Std

	a no	Hours	
11777 (3)	ALERU .	mours	
DEFECT OF	2100		

Marks: 75

PART - I

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
 - 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

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

5. $H_{2(g)} + Cl_{29(g)} \rightarrow 2HCl_{(g)}$

6.

- (a) Decomposition Reaction
- (c) Single Displacement Reaction
- (b) Combination Reaction (d) Double Displacement Reaction
- $C_2H_5OH + 3O_2 \rightarrow 2CO_2 + 3H_2O$ 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 __ 9.
 - 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
- 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

- 13. Define the unit of current.
- Match the following. 14.

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 15.
- Name the simplest ketone and give its structural formula.
- What are heart sounds? How are they produced? 16. 17.
- Name the parts of the hindbrain. 18.
- Identify the parts A, B, C and D. 19.



- 20.
- (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 21.
- A solution is prepared by dissolving 45 g of sugar in 180 g of water. Calculate the mass 22. 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. 23.
- (i) Explain why the ceilings of concert halls are curved. 24.
 - (ii) Mention two cases in which there is no Doppler effect in sound?
- (i) What is stellar energy? 25.
 - (ii) Give any two uses of radio isotopes in the field of agriculture?
- How does pH play an important role in everyday life? 26.
- (i) Give an example each 27.
 - 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. 29.
- Write the physiological effects of gibberellins. 30.
- (i) What do you understand by the term phenotype and genotype? 31.
 - (ii) What are allosomes?

34.

An electric iron consumes energy at the rate of 420 W when heating is at the maximum 32. 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 33. 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. 35.
 - (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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