4	○ P Reg.	No.
	O R Half-Yearly Examination - 2022	
Tim	ne : 2.30 hrs. SCIENCE	Max. Marks: 7
	PART - I	*
1.	Choose the correct answer	5 x 1 =
4.	The eye defect 'presbyopia' can be corrected by	
1	a) convex lens b) concave lens c) convex mirror d) bifocal lens	
2.	SI unit of resistance is	
the s	a) mho b) joule c) ohm d) ohm meter	
3.	aprons are used to protect us from gamma radiations.	
- A.7 :	a) Lead oxide b) Iron c) Lead d) Aluminium	
4.	1 mole of any substance containsmolecules.	*
A4 ,	a) 6.023 x 10 ²³ b) 6.023 x 10 ⁻²³ c) 3.0115 x 10 ²³ d) 12.046 x 10 ²³	
5.	Which of the following is the universal solvent?	
Act s	a) Acetone b) Benzene c) Water d) Alcohol	
6.	Which one of the following is used to cure wound?	
V.	a) Hydrochloric acid b) Hydrogen peroxide c) Ammonium chloride d) All t	he above
7.	is ATP factory of the cells.	
	a) chloroplast b) cytoplasm c) mitochondria d) nucleus	
8.	Water which is absorbed by roots is transported to aerial parts of the plant	through
a) cortex b) epidermis c) phloem d) xylem		
9.		
	a) cytokinin b) auxin d) gibberellin d) ethylene	
10). The best way of direct dating fossils of recent origin is by	
	a) radio carbon method b) uranium lead method c) potassium - argon me	thod d) both (a) and (b)
11	Excessive consumption of alcohol leads to	
	a) loss of memory b) cirrhosis of liver c) state of hallucination d) supression	on of brain function
12.	All files are stored in	
,,,,,	a) folder b) box c) pai d) scanner	
	PART - II	
11.	Answer any 7 of the following. (Question number 22 is compulsory)	7 x 2 = 1
13.	Why a spanner with a long handle is preferred to tighten screws in heavy v	rehicles?
14.		
	True or false (If false give the correct statement)	
	a) lonic radius increases across the period from left to right.	
	b) In a solution the component which is present in lesser amount is called	solvent.
16	Fill in the blanks.	
٠٠,	a) The chemical name of rust is b) 100% pure ethonol is called	****
17	Ordinary soap cannot be used in hard water. Why?	
	Match the following.	
	1. Brain - a) pleura	
	2. Kidney - b) capsule	
	3. Heart - c) meninges	

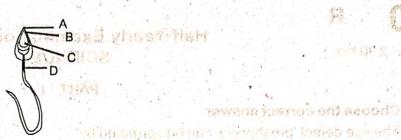
10 - Science - 1

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id. The pest way of dissordating is sails of levery capa-

Why a spancer with a long bandle is preferred to highest solvers.

- 4. Lungs d) Pericardium
- 19. Draw the label the parts of sperm cell.



- 20. Name the types of stem cells.
- 21. What are the advantages of practising exercise in daily life? 100 (5 914) 975000 (6 819) 2000 (6
- 22. Three resistors of resistances 5 ohm, 3 ohm, and 2 ohm are connected in series with 10V battery. Calculate their effective resistance and the current flowing through the circuit.

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III. Answer any 7 of the following. (Question number 32 is compulsory)

 $7 \times 4 = 28$

- 23. Differentiate convex lens and concave lens.
- 24. a) What is meant by electric current. b) An alloy of nickel and chromium is used as the heating element. Why?
- 25. What is a nuclear reactor? List out the essential parts of a nuclear reactor.
- 26. a) Identify the bond between H and F in HF molecule.
 - b) What property forms the basis of identification?
 - c) How does the property vary in periods and in groups?
- 27. Differentiate reversible and irreversible reaction.
- 28. a) How does leach suck blood from the host?
 - b) How does locomotion takes place in leech?
- 29. a) Name the gaseous plant hormone. Describe its three different actions in plants.
 - b) Which hormone is known as stress hormone in plants? Why?
- 30. a) Define Palaeontology?
 - b) Which organism is considered to be the fossil bird? Why is the bird considered to be a connective link?
- 31. Enumerate the functions of forest.
- 32. Calculate the number of moles in a) 27 g of Al b) 1.51 x 1023 molecules in NH₄Cl.

PART - IV

Answer all the questions.

- 33. a) i) State the universal law of gravitation and derive its mathematical expression.
 - ii) What are the causes of "Myopia"." (OR) and the contract of the causes of the cause of the cau
 - b) i) List the merits of LED.
 - ii) Write any three features of Natural and artificial radio activity.
- 34. a) i) What is rust? Give the equation for formation of rust.
 - ii) In what way hygroscopic substances differ from delinquescent substances. (OR)
 - b) i) List out the factors influencing the rate of a reaction.
 - ii) What is called homologous series?
 - iii) Give any three of its characteristics.
- 35. a) i) Name the three basic systems in flowering plants.
 - ii) What is transpiration? Give the importance of transpiration. (OR)
 - b) i) Draw and label the structure of a neuron.
 - ii) What precautions can be taken for preventing heart disease?

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