MODEL PAPER-2
SUMMATIVE ASSESSMENT
PHYSICAL SCIENCE-PAPER-1
(English Medum)

Class: X   (Max.Marks:50)   Time: 2.45 Hrs.

Instructions:
1. There are four sections and 33 questions in the paper.
2. Answers should be written in a given answer booklet.
3. There is internal choice in Section-IV only.
4. Write all the questions visible & legibly.
5. 15 minutes are given for reading the question paper and 2.30 hours given for answering questions.

Marks: 50   Time 2.45 Hrs.

SECTION-I

Note: 1. Answer all Questions.
       2. Each Question carries ½ Mark   12 x ½ =6

1. What is the S.I. Unit of specific heat?

2. Write any two questions about the optical fibres

3. Write the lens markers formula

4. During refraction .... will not change

    a)   Wave length   b) Frequency   c) Speed of light

    d) All the above.

5. A battery 6 V is applied across a resistance of 15 Ω find the current flowing through the circuit.

6. Faraday's law of Induction is the consequence of ....

7. The colour of methyl orange indicator in acedic medium is

    a) Yellow   b) green   c) Orange   d) Red

8. $\boxed{\uparrow\downarrow}\ \boxed{\uparrow\downarrow}\ \boxed{\uparrow\downarrow\ \uparrow\ \ }$ Configuration deviate the rule

    a) Aufbau   b) Hund's   c) Pauli's   d) All

9. Match the following

SET-A		**SET-B**
1. s-Block, P- Block	( )	a) Inner transition elements
2. d- Block	( )	b) representative elements
3. f – Block	( )	c) Transition elements.

10. Valency bond theory was proposed by ....

11. Arrange Ag, Mg, K in actinity series

12. Which of the four test tubes containing the following chemicals shows the brisk effervrescene when dilute acetic and was added to them.

i) KoH   ii) $NaHCO_3$ iii) K_2CO_3 iv) NaCl

A)   i & ii   B) ii & iii   C) I & iv   d) ii & iv

SECTION-II

Note: 1. Answer all the Questions.

        2**.** Each question carries 1 Mark   8x1=8

13. Is the refractive index for a given pair of media depend on the angle of incidence.

14. Mention the role of pupil in human eye

15. Calculate the power of a convex lens of focal length 50 cm.

16. What do you mean by short circuit.

17. Give an examples of olfactory indicators.

18. What is absorption spectrum

19. Write the General electronic configuration of Nobel gases.

20. Write the names of any two ores of Iron

SECTION-III

Note: 1. Answer all the Questions.

        2**.** Each question carries 2 Mark   8x2=16

21. What happens to the water when wet clothes day

22. On which factor does the refractive index of a medium depend.

23. Distinguish between Ohmic conductors and now ohmic conductors.

24. The value of magnetic field induction which is uniform is 2 T. What is the flux passing through the surface of area 1.5 m^2 perpendicular to field.

25. What is a neutralization reaction? Give two examples.

26. Why are chromium and copper exceptions to electronic configuration.

27. Draw the shape of a) NH_3 (b) H_2O Molecules.

28. Explain the cleaning action of soap.

SECTION-IV

Note: 1. Answer all the Questions.

2. Each question has internal choice

2. Each question carries 4 Mark   5x4=20

29.   a)   Determination of specific heat of solid experimentally

(or)

b)   Define Myopia? Ho do you correct the eye defect Myopia.

30.   a)   What is meant by water of crystallization of a substance? Describe an activity to show the water of crystallization.

(or)

b)   Explain the significance of three quantum members in predicting the positions of an electron in an atom.

31.   a)   How do you prove experimentally that $\angle r > \angle i$ when lights travel from denser medium to rarer medium.

(or)

b)   State Ohm's Law, suggest an experiment to varify it an explain the procedure.

32.a.   Complete the following Table.

Period No.	Filling up orbitals (Sub Shells)	Maximum number of electrons filled in all the sub shells	Total No. of Elements in the period
1.	1s	2	8
2.	--	8	8
3.	3s, 3p	8	--
4.	4s, 3d, 4p	--	18
5.	--	18	--
6.	6s, 4f, 5d, 6p	--	--

b.   Complete the following table

Functional Group	Structural Formula	Example	Suffix
Ester	RCOOR	$CH_3COOC_2H_5$	--
Alcohol	--	--	-
Aldehyde	--	CH_3CHO	-
Ether	R-O-R	CH_3OCH_3	--
Ketone	--	--	One

33. a) Draw ray diagram for the following positions and explain the nature and position of image.

   i) Object is place at C2

   ii) Object is placed between F_2 and optic centre p

                    (or)

   b) Draw a diagram showing (i) Froth Floation

      ii) Magnetic separation.