PRACTICE PAPER - II

SCIENCE - PHYSICAL SCIENCE - PAPER-I

జిల్లా 1st శ్రీ ప్రతిభ

Time : 2.00 Hrs] **[Max.Marks : 50**

INSTRUCTIONS :-

1. **Ouestion paper consists of 4 sections and 17 questions.**
2. **Internal choice is there only for Q.No 12 in section-III and for all the querstions in section-IV**
3. **In the duration of 2 Hours, 15 Minints of time is allotted to read the question paper.**
4. **All answers should be written in the answer booklet only.**
5. **Answers should be written neatly and legibly.**

SECTION - I

Note : 1) Answer all the Questions **8x1=8 Marks**

2) Each Questions carries 1 Mark.

1. Write an equation for neutralisation reaction?

2.

Chemical Reaction	X	Y	Z
Equation	$AB+CD \rightarrow AD+CB$	$AB+C \rightarrow AC+B$	$AB \rightarrow A+B$

Which of the above chemical reaction indicates chemical Displacement?

3. Draw a neat labelled diagram of pH scale.
4. Platinum, Gold and Silver are used to make Jewellery. Predict the reason.
5. The Functional group present in the compound Butanone is _____
6. The change in focal length of an eye lens is caused by the action of the

   a) Pupil b) retina c) cillary muscles d) Iris
7. Write the value of KWH in Joules.
8. How does electricity flow in an electric circuit?

SECTION - II

Note : 1) Answer all the Questions **4x2=8 Marks**

2) Each Questions carries 2 Marks.

9. A ray of light travelling in air enters obliquely into water. Does the light may bent towards the normal (or) away from the normal? Why?
10. Frame any two questions to differentiate between ohmic and non-ohmic condctors.
11. Identify the compounds having double bond in the given below

    $C_2H_6, C_2H_4, CO_2, N_2, C_2H_2, O_2$

SECTION - III

Note : 1) Answer all the Questions **3x4=12 Marks**

2) Each Questions carries 4 Marks.

12. Draw any one of the following diagrams.

a) Draw ray diagrams for the following position of convexe lens?

i) Object of placed at F_2 ii) Object of placed at $2F_2$

(Or)

b) Draw a diagram showing important products from the chlor-alkali process.

13. I an experiment with concave mirror the image distance for various positions of the object are shown below

POSITION	A	B	C	D
Object Distance (u)	10	30	40	50
Image Distance (v)	30	60	40	30

Answer the following questions :

a) What is the focale length of the mirroro?

b) At what position of the object, mirror forms virtual image?

c) At what position of the object, the magnification of image is equal to 1?

d) At what position of the object, the image is real?

14. What are the applications of pH in daily life?

SECTION - IV

Note : 1) Answer all the Questions **3x8=24 Marks**

2) Each Questions carries 8 Marks.

15. Differentiate between metal and non-metal on the basis of their chemical properties ?

(Or)

i) What is an homologous series? Explain with an example.

ii) Write the substitution reaction of Alkanes.

16. Explain the formation of rainbow in the sky with the help of a neat diagram.

(Or)

Deduce the expression for the equivalent resistance of three resistors in series in an electric circuit.

17. Explain the electrolysis of water with an activity?

(Or)

Write an activity to prove that a current carrying wire produces magnetic field .