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Class : X – All Section **PRACTICE TEST - 1** Time : 2.45 Min.
Sub : Chemistry Marks : 50 M

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.
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.

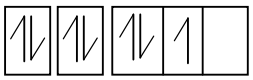
Section- I

I. Answer the following questions **12×½ =6 M**

1. Which of the following molecule doesn't have sp^3 hybridsation ?
   (CH_4 ,BF_3, NH_3, H_2O)
2. Give two examples of each to ionic and covalent compounds.
3. Which method do you suggest for extraction of high reactive metals like sodium
4. What is an ore ? On what basis a mineral is chosen as an ore ?
5. Which of the following is not an alkane ?
   CH_4,C_3H_8, C_2H_4 ,C_5H_{12}
6. Write two uses of nano tubes
7. Iam the element belongs to Halogen family and I have highest electro negativity value. Who am I ?
8. What is the atomic weight of Se, if S, Se, Te are Doberenier traids ?[A.wt of s=32 , Te=125]
9. Which rule is violated in the electronic configuration $1s^0 2s^2 2p^4$?
10. What is the maximum value of '*l*' for n=4 ?
11. What happens when an acid or a base is mixed with water ?
12. Name the scientist who introduce pH scale.

Section-II

II. Answer the following questions **8×1 =8 M**

13. Draw the Lewis dot structure of the oxygen atom.
14. Which theory explained bond angles in molecules ? Who proposed it ?
15. Which method is suitable to enrich sulphide ores
16. What is the differences between Roasting and calcination ?
17. What are alkenes ? write the general formula of alkenes. Give an example for alkenes.
18. Write any two p-block elements
19. The electronic configuration of Nitrogen is  which rule is deviated in this configuration
20. During the dilution of acid , Rani added water to acid, ravi added acid to water. Who is correct ?

Section - III

III. Answer the following questions **8×2 =16 M**

21. Explain, why bonding angle (HOH) in water is $104^0 31'$ instead of $109^0 28'$?
22. Predict the reasons for low melting point for covalent compounds when compared with ionic compounds.
23. Write the name of the method we use to separate the ore or impurity in which one of them is a magnetic substance. Draw a neat diagram indicating the method

24. Write the IUPAC names of the following compounds.

i) $CH_3 - CH_2 - CH_2 - CH_2 - C \equiv C - H$

ii) $CH_3 - CH_2 - CH_2 - \underset{\underset{H}{|}}{C} = O$

25. Write the difference between Mendeleeff's periodic law and modern periodic law.

26. Draw neat diagrams of s and p orbitals ?

27. Write the experimental procedure to test carbon dioxide gas.

28. Why does tooth decay start when the pH of mouth is lower than 5.5?

Section - IV

IV. Answer the following questions **5×4=20 M**

29. Suggest an experiment to prove that the presence of air and water is essential for corrosion of iron.

(OR)

Explain the formation of sodium chloride and calcium oxide on the basis of the concept of electron transfer from one atom to another atom.

30. What is hybridization? Explain the formation of the following molecules using hybridization

a) $BeCl_2$ b) BF_3

(OR)

Explain the significance of the three quantum numbers in predicting the position of an electron in an atom?

31. Compounds such as alcohols and glucose contain hydrogen but are not categorized as acids. Describe an activity to prove it?

(OR)

Suggest a test to find the hardness of water and explain the procedure.

32. Explain the cleansing action of soap.

(OR)

Write the information about metallic character of IA group.

33. Draw the diagram of Reaction of acids with carbonates and metal hydrogen carbonates.

(OR)

Draw a diagram of Froath flotation and magnetic separation method.

***** All the best *****