

Model Question Paper
p - Block Elements - Part I

12th Standard

Chemistry

Reg.No. :

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I. Answer all the questions.

II. Use Blue pen only.

Time : 00:45:00 Hrs

Total Marks : 45

5 x 1 = 5

Section-A

- 1) An element which was burnt in limited supply of air to give oxide **A** which on treatment with water gives an acid. **B**. Acid **B** on heating gives acid **C** which gives yellow precipitate with $AgNO_3$ solution **A** is
(a) SO_2 (b) NO_2 (c) P_2O_3 (d) SO_3
- 2) The compound with garlic odour is
(a) P_2O_3 (b) P_2O_5 (c) H_3PO_3 (d) H_3PO_4
- 3) The shape of PCl_5 is
(a) pyramidal (b) trigonal bipyramidal (c) linear (d) tetrahedral
- 4) The compound used as smoke screen
(a) PCl_3 (b) PCl_5 (c) PH_3 (d) H_3PO_3
- 5) Which shows only -1 oxidation state?
(a) fluorine (b) bromine (c) chlorine (d) iodine

Section-B

5 x 3 = 15

- 6) Write a note on plumbo solvency. (or) Why are lead pipes not used to carry drinking water?
- 7) H_3PO_3 is diprotic. Why?
- 8) Draw the structure of a) PCl_5 b) H_3PO_3
- 9) Prove that P_2O_5 is a powerful dehydrating agent.
- 10) Why H_2O is a liquid while H_2S is a gas. Why?

Section-C

5 x 5 = 25

- 11) What are silicones? How are they prepared? Mention its uses?
- 12) Give an account of manufacture of lead. Describe its important properties and uses.
- 13) How are the following compounds prepared from phosphorus? a) P_2O_3 b) P_2O_5 c) PCl_3 d) PCl_5 e) PH_3
- 14) How fluorine is isolated from their fluorides? Describe its important properties and uses.
- 15) Give a detailed account of the interhalogen compounds with special reference to the compounds involving iodine. Draw their structures.
