

Model Question paper
p-Block elements 3

11th 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 : 35

5 x 1 = 5

Part - A

- 1) The formula of Borax is
(a) $NaBO_2$ (b) $Na_2B_4O_7$ (c) H_3BO_3 (d) None of the above
- 2) The general electronic configuration of carbon group elements is
(a) ns^2np^6 (b) ns^2 (c) ns^2np^1 (d) ns^2np^2
- 3) The oxides of non-metals are usually
(a) ionic (b) coordinate (c) covalent (d) none of the above
- 4) The hydride of V group element which is used in the manufacture of artificial silk
(a) ammonia (b) stibine (c) phosphine (d) bismuthine
- 5) Anaesthetic used for minor operation density
(a) nitrous oxide (b) nitric oxide (c) nitrous oxide + oxygen (d) nitrogen dioxide

Part - B

3 x 2 = 6

- 6) Show the electron accepting property of boron trifluoride by giving an example.
- 7) Why Boron family has a tendency to form hydrides?
- 8) Boron does not form B^{3+} ion. Why?

Part - C

3 x 3 = 9

- 9) NH_3 is soluble in water whereas other hydrides of group 15 elements are insoluble in water. Why?
- 10) What are CFC's? Mention its environmental action.
- 11) Mention the metal ions present in haemoglobin and myoglobin and state its function.

Part - D

3 x 5 = 15

- 12) Explain inert pair effect with suitable example.
- 13) How is boron extracted from borax?
- 14) Why silicon carbide is used as an abrasive?
