

Model Question paper
Group 1 s-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) Deuterium nucleus consists of
(a) 2 protons only (b) one neutron (c) one proton and one neutron (d) 2 protons and one neutron
- 2) At room temperature ordinary hydrogen consists of about
(a) 25% para and 75% ortho (b) 75% para and 25% ortho (c) 99% para and 1% ortho (d) 1% para and 99% ortho
- 3) H_2O_2 is a powerful ----- agent
(a) dehydrating (b) oxidising (c) reducing (d) desulphurising
- 4) The oxidation state of alkali metal is
(a) +2 (b) 0 (c) +1 (d) +3
- 5) On moving down the group, density of the alkali metals
(a) increases (b) decreases (c) increases and then decreases (d) decreases and then increases

Part - B

5 x 3 = 15

- 6) How does heavy water react with metals?
- 7) How is hydrogen peroxide prepared in the laboratory?
- 8) Write about the reducing property of hydrogen peroxide.
- 9) Why alkali metals have low melting and boiling points?
- 10) Why alkali metals have strong electropositive character?

Part - C

3 x 5 = 15

- 11) Write about the exchange reactions of deuterium.
- 12) Explain the preparation of heavy water.
- 13) Explain how liquid hydrogen can be used as a fuel.

QUESTION BANK 365
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