

Model Question paper
Group 1 s-Block elements 2
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) ----- is used for the preparation of deuterium
(a) Deuterium oxide (b) heavy water (c) both a and b (d) deuterium peroxide
- 2) ----- is used as a propellant in nucleus
(a) H_2O_2 (b) D_2O (c) ND_3 (d) $\text{CH}_2=\text{CH}_2$
- 3) When heated in bunsen flame, lithium gives -- colour
(a) yellow (b) blue (c) lilac (d) crimson red
- 4) If the element can lose an electron readily, they are said to be
(a) electronegative (b) electropositive (c) electronative (d) electrovalent
- 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

3 x 2 = 6

- 6) How does deuterium react with metals?
- 7) Mention the uses of deuterium.
- 8) How is tritium prepared?

Part - C

3 x 3 = 9

- 9) Write about the reducing property of hydrogen peroxide.
- 10) Mention two important uses of H_2O_2 .
- 11) Why alkali metals have low melting and boiling points?

Part - D

3 x 5 = 15

- 12) Compare water and heavy water
- 13) Explain the oxidizing property of hydrogen peroxide.
- 14) Explain how liquid hydrogen can be used as a fuel.
