

Model Question paper
Group 2 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) Alkaline earth metals are
(a) monovalent (b) trivalent (c) divalent (d) zerovalent
- 2) The colour given by barium in flame is
(a) Brick red (b) Apple Green (c) Red (d) Blue
- 3) Quick lime is
(a) Calcium oxide (b) Calcium hydroxide (c) Calcium nitrate (d) Calcium sulphate
- 4) Plaster of Paris is
(a) $\text{CaSO}_4 \cdot 2\text{H}_2\text{O}$ (b) CaCl_2 (c) CaSO_4 (d) $\text{CaSO}_4 \cdot \frac{1}{2}\text{H}_2\text{O}$
- 5) The element used in pyrotechnics is
(a) Magnesium (b) Barium (c) Calcium (d) Beryllium

Part - B

2 x 2 = 4

- 6) Why there is increase in the ionisation potential for forming M^{3+} ion for group 2 metals?
- 7) List the carbonates and hydroxide of alkaline earth metals in order of their increasing stability and their solution.

Part - C

2 x 3 = 6

- 8) Beryllium halides are covalent whereas magnesium halides are ionic. Why?
- 9) The basic strength of the oxides of group 2 elements increases from Be to Ba. Why?

Part - D

4 x 5 = 20

- 10) What are alkaline earth metals? Why are they called so?
- 11) How can you explain the anomalous behaviour of beryllium?
- 12) Mention the uses of plaster of Paris?
- 13) How is MgSO_4 prepared?

QUESTION BANK 365
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