

PARUL UNIVERSITY
PARUL INSTITUTE OF APPLIED SCIENCES
MID SEMESTER REMEDIAL EXAMINATION, MARCH 2020
B.Sc. Chemistry Semester 5

Paper Name: Inorganic Chemistry

Date: 19/03/2020

Paper Code: 11105302

Time: 45 min.

Max. Marks: 20

Instructions:

1. All questions are compulsory and options are given in first and second question only.
 2. Numbers to the right of question indicate the marks of respective question.
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- Q. 1** Do as directed (Attempt Any One). **(04)**
- a. Write the electronic configuration of each alkali metal and alkali earth metal
 - b. Define Hydrogen bond and discuss the types of hydrogen bond with examples
- Q. 2** Attempt any *three* questions of the following. (Each question carries *TWO* mark) **(06)**
- a. Give preparation of calcium oxide
 - b. Define interhalogen compounds.
 - c. Give organometallic compound magnesium
 - d. Discuss any periodic trend of halogen group
- Q. 3** Do as directed. Attempt *all* five questions. (Each question carries *ONE* mark) **(05)**
- a. Complete the reaction by balancing it: $\text{NaOH} + \text{H}_2\text{SO}_4 \rightarrow$
 - b. Define the term polarization
 - c. True or False: The order of density for alkaline earth metals is $\text{Ca} < \text{Mg} < \text{Be} < \text{Sr} < \text{Ba}$
 - d. Define the term electron affinity
 - e. Complete the given reaction: $\text{Cl}_2\text{O}_6 + 2\text{OH}^- \rightarrow$
- Q. 4** Multiple choice questions. (Write Correct Option). (Each question carries *ONE* mark) **(05)**
- 1 Peroxides and superoxides act as _____
(A) Oxidizing Agent (B) Reducing Agents
(C) Both (A) and (B) (D) None of the above
 - 2 The First compound of Noble gas was made by
(A) Neil Bartlett (B) Nill Bartlett
(C) Nail Bertlett (D) Nick Bartlett
 - 3 How many valence electron present in alkali metals?
(A) One (B) Two
(C) Three (D) Four
 - 4 Which one has greater polarizability?
(A) LiI (B) LiCl
(C) LiF (D) LiBr
 - 5 Which one is least stable?
(A) HI (B) HCl
(C) HBr (D) HF

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