

SW-378

Total No. of Pages : 2

Seat No.	
----------	--

B.Sc. (Part - III) (Semester - V) Examination, November 2019

CHEMISTRY

Inorganic Chemistry (Paper - X)

Sub. Code : 65824

Day and Date : Friday, 1 - 11 - 2019

Total Marks : 40

Time : 12.00 noon to 2.00 p.m.

- Instructions :
- 1) All questions are compulsory.
 - 2) Figures to the right indicate full marks.
 - 3) Draw neat labelled diagrams wherever necessary.

Q1) Select the most correct alternative among those given below and rewrite the sentences: [8]

- a) Hard acids are _____
- i) alkali metals
 - ii) alkaline earths metals
 - iii) lighter transition metals with higher oxidation states
 - iv) all of the above
- b) In $\text{Be}(\text{CH}_3)_2$ the bonding is best described by _____ bonds.
- i) 3c-2e
 - ii) 2c-3e
 - iii) 2c-2e
 - iv) 4c-2e
- c) In octahedral complexes each t_{2g} electron is stabilized by _____
- i) -6 Dq
 - ii) +4 Dq
 - iii) +6 Dq
 - iv) -4 Dq
- d) During formation of a complex each approaching ligand should have at least _____
- i) one bond pair
 - ii) two lone pair
 - iii) one unpaired electron
 - iv) one lone pair
- e) Monomers having _____ functional groups can only form polymers
- i) one
 - ii) two
 - iii) zero
 - iv) all above

P.T.O.

