

RayatShikshanSantha's
Rajarshi Chhatrapati Shahu College, Kolhapur
B.Sc. (Part-III ,Sem-VI) Preliminary Examination(2017-2018)
Subject: Inorganic Chemistry P-XIV

Instructions – All questions are compulsory

Marks:40

Figure to right indicate full marks.

Draw a neat labelled diagram whenever necessary.

Use of scientific calculator is allowed.

Q1 Select the most correct alternatives from among those given below

(08)

- 1).....is essential structural element for all organism
a) Na b) Ca c) Au d) Ag .
- 2) Purest form of iron is..... Iron
a) Pig b) Wrought c) Steel d) Cast
- 3) L.D Process was developed by
a) Bessemer b) Burrel c) Lintzer d) Faraday
- 4) Elements after Uranium Called
a) Trans uranic b) Transition c) Lantanoides d) P-block
- 5) In Nuclear reactor Graphite is used as
a) Catalyst b) Fuel c) Moderator d) Coolant
- 6) Complexes which do not undergo substitution are known as
a) Labile b) Stable c) Unstable d) Inert
- 7) In dissociative mechanism bond..... is important
a) Making b) Breaking c) Partial making d) Not making
- 8) In interchange mechanism intermediate islived 9) DMG is used to precipitate
a) Long b) Short c) Not d) Very long

Q.2) Answer the following (Any Two)

(20)

- 1) What is trans effect ? Discuss polarization theory of trans effect
- 2) Draw neat labelled diagram of Bismar furnace Explain in brief and give its advantages
- 3) Explain the relation between thermodynamics and kinetic stability

Q.3) Write a short note (Any Three)

(12)

- 1) Distinguish between fusion and fission reaction
- 2) Distinguish between Bismar process and L.D. process
- 3) Write a short note on L.D. process
- 4) Write a short note on age determination by using radioactivity.
- 5) Anation reaction