

Rayat Shikshan Santha's
Rajarshi Chhatrapati Shahu College, Kolhapur
B.Sc. (Part-II, Sem-III) Preliminary Examination (2019-20)
Subject: Industrial Chemistry (Paper-VI)

Day and Date: Wednesday, 11-10-2019

Marks: 50

Time: 3:00 to 5:00 pm

- Instructions:**
1. All questions are compulsory
 2. Figures to the right indicate full marks
 3. Scientific calculator is allowed for calculations
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Q.1. Select most correct alternative for each of the following and rewrite the sentences. (05)

a) In electroplating..... plays an important role

- a) electrolysis b) electro osmosis c) osmosis d) none of these

b) Pure metal corrodes.....

- a) fast b) slow c) moderate d) hardly

c) Chemical corrosion of metal takes place due to

- a) electrochemical b) chemical c) nuclear d) neutral

d).....is the process which gives the coating of oxidefilm on the surface of Al and it's alloy

- a) electrolysis b) electrophoresis c) anodising d) all of these

e) Pulp is subjected to beating in

- a) Hollander b) conical refiner c) Jorden engine d) all of these

Q.2 Answer in one sentence:
(05)

- 1)What is meant by immersed corrosion
- 2)State differential aeration principle

3)What is meant by anodizing

4)State first law of electrolysis

5)What is zwitterionic detergent

Q.3. Attempt the following. (any 04)
(20)

1)Explain any one method of protection of metal from corrosion

2)Short notes on cleaning of articles to be plated

3)Draw schematic diagram of Hollander and explain its construction

4)Explain the cleansing action of soap

5)State factor affecting corrosion and explain any one of the example

6)Write a note on calendaring

Q.4. Write short note. (any 02)
20 Marks

1)Explain the preparation of soap by hot process

2)Describe in detail throwing power and covering power

3)Discuss in detail electrochemical theory of corrosion