

Question Bank (G scheme)

Name of subject: applied chemistry

Unit Test :I

Subject code: 17203

Course : ME

Semester: II

2marks questions :-

- 1) What are the Indian resources of Iron?
- 2) Define metallurgy.
- 3) Write names of different ores of iron with their chemical formula.
- 4) What are the products of blast furnace?
- 5) State the function of coke and limestone in blast furnace.
- 6) Give the purposes of adding alloying elements, nickel in steel .
- 7) Write difference between ore and mineral.
- 8) What is corrosion? Give its types.
- 9) Define atmospheric corrosion. Give two factors on which atmospheric corrosion depends.
- 10) Zinc coated steel is not useful but tin coated steel is useful for storing food stuff. Why?
- 11) In any structure two dissimilar metal under humid condition should not be in direct contact with each other. Why?
- 12) Name the type of oxide films. Which is more corrosive. Why?
- 13) Impure metal corrode faster than pure metal under identical condition. Explain why?
- 14) Why gold does not get corroded in air?
- 15) Which type of oxide film is more protective against corrosion? Give one example of metal which produces such an oxide film.

4 marks question :-

- 1) Write difference between pig iron and wrought iron.
- 2) Give the chemical reaction occurring in the zone of the reduction in blast furnace.
- 3) State chemical reactions in the zone of heat absorption.
- 4) Give the composition, properties and uses of pig iron.
- 5) What is steel ? How it is classified?
- 6) Give composition, properties of different carbon steels.
- 7) What is alloy steel? give composition, properties of magnetic steel(alnico).
- 8) What are the purposes of heat treatment? Describe the process of tempering.
- 9) Write difference between galvanizing and tinning.
- 10) What is electro-chemical corrosion? state and explain any three factors on which electro-chemical corrosion depends.
- 11) Explain the hydrogen evolution mechanism of electro-chemical corrosion. When it occurs.
- 12) What is paint? Give the characteristics of paint.
- 13) What are the constituents of paint? Give the function of pigments and thinners.

14) What is sherdizing? Give its process and application.