

QUESTION -BANK - Applied.-Science-CHEMISTRY(17211)

SHORT ANSWERS -QUESTION

- 1) DEFINE -Metallurgy & Alloy
- 2) Write the ores of copper with chemical formula.
- 3) Write the ores of Aluminum with chemical formula.
- 4) Define –roasting
- 5) Give two properties &uses of copper.
- 6) Give two properties &uses of application of aluminum metal.
- 7) Define corrosion. Mention the types of corrosion.
- 8) Why is galvanized containers not used for storing food stuff?
- 9) Write the difference between galvanizing and tinning.
- 10) Which types of oxide film is more corrosive? why?
- 11) Define Atmospheric corrosion.
- 12) Write the uses of metal cladding.

FOUR –MARKS QUESTION-

- 13) Describe the process of Bessemerisation process.
- 14) Explain electro refining of copper with help of figure.
- 15) Describe the process of refining of aluminum by electrolysis.
- 16) Describe electrolytic reduction of alumina.
- 17) Write composition, properties and application of rose metal &brazing alloy.
- 18) Write composition properties &application Of soft solder & Titman’s solder.
- 19) Explain hydrogen evolution mechanism of electro-chemical corrosion with neat labeled diagram?
- 20) Write the factors affecting the rate of electrochemical corrosion.
- 21) Describe briefly metal cladding process.
- 22) State principle of mechanism of atmospheric corrosion.
- 23) Explain the process of galvanization.
- 24) State &explain constitutes of the paint.

Question Bank Applied Chemistry

Attempt any four . (2*4)

1. State two uses of a. urea formaldehyde b. phenol formaldehyde c. teflon d. Glass
2. State two applications of lead acid battery.
3. State two uses of Ni/Cd cell.
4. State purpose of electroplating.
5. Why the dry cell discharge even when it is not used.
6. Define Cementation.
7. Define adhesive. Give two examples of it
8. Write two differences between Insulators and Dielectrics.

Q.2 Attempt any three.

2. Define following:- any three (3*3)

1. Photo conducting polymer
2. Electrolyte
3. Conductivity
4. Ohms law
5. Separator
6. Charge
7. Discharge
7. Closed/open circuit voltage

2. Difference between:-three point (any one)

1. Electrochemical and electrolytic cell. three points.
2. Primary cell and secondary cell. three points.
3. Galvanizing and sherardizing. three points.
4. Define equivalent and specific conductance? How they vary with dilution?
5. Explain the construction and working of dry cell or leclanche cell.
6. What is metal cladding ? How it is done?

Q.3 Attempt any Two . (2*4)

1. Describe the construction and working of Daniel cell with neat label diagram
2. Describe the discharging and charging reactions of Lead acid storage cell
3. Describe the construction and working of Ni/Cd cell with neat label diagram
4. Describe hydrogen oxygen fuel cell and state two advantage of it
5. State four advantages and four limitations of fuel cell
6. What are conducting polymers? State their applications.