

- Q.26 Describe the different constituents of a varnish in brief.
- Q.27 Write note on corrosion inhibitors.
- Q.28 Discuss the process of electrolysis in brief.
- Q.29 What is difference electrolytic cell and electrochemical cell?
- Q.30 Describe skinning and tackiness of paint in brief.
- Q.31 Define Lacquers & White uses of Lacquers.
- Q.32 Describe about roller mill used in paint manufacturing.
- Q.33 Describe about roller mill used in paint manufacturing.
- Q.34 Write in one any additives used in paint.
- Q.35 Describe the procedure for coating a material.

#### SECTION-D

**Note:** Long answer type questions. Attempt any two questions out of three questions. (2x10=20)

- Q.36 Describe the complete process for manufacture of paint with the help of a flow diagram in detail.
- Q.37 What is pigment? Discuss its significance in paint formulation? Explain important properties of a good pigment for paint formulation in detail.
- Q.38 Explain the following in detail
- Pigment volume concentration
  - Electroplating method

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**6th Sem / Branch : Chemical Engg.**

**Sub. : Paint Technology**

Time : 3Hrs.

M.M. : 100

#### SECTION-A

**Note:** Multiple choice questions. All questions are compulsory (10x1=10)

- Q.1 \_\_\_\_\_ are cheaper varieties of paint.
- Color wash
  - Pointing
  - Distempers
  - Acrylics
- Q.2 A paint normally consists of \_\_\_\_\_ components.
- 3
  - 4
  - 5
  - 6
- Q.3 the appearance of glossy patches on the painted surface is called:
- Flashing
  - Blooming
  - Running
  - Blistering
- Q.4 Which of the below is a pigment imparting brown colour?
- Raw sienna
  - Soot
  - Burnt sienna
  - Ultramarine
- Q.5 the component of filler in the paint does the function of:
- Absorbing oxygen
  - Reducing cost
  - Consistency
  - Smooth spreading

- Q.6 Which defect occur if a paint is applied excessively thick?
- a) Grinning                      b) Running  
c) Wrinkling                    d) Flaking
- Q.7 The \_\_\_\_\_ varnishes dry slowly, but they form hard and durable surfaces.
- a) Oil                                b) Spirit  
c) Water                           d) Turpentine
- Q.8 Which paint contains polystyrene as a base?
- a) Synthetic rubber            b) Enamel  
c) Aluminum                    d) Emulsion
- Q.9 \_\_\_\_\_ Defect occurs when surface to be painted is too smooth.
- a) Sagging                        b) Running  
c) Grinning                       d) Wrinkling
- Q.10 Boiled linseed oil is used as a solvent for \_\_\_\_\_ resin.
- a) Amber                         b) Mastic  
c) Gum                             d) Rosin

### SECTION-B

**Note:** Objective type questions. All questions are compulsory. (10x1=10)

- Q.11 Name a technique of applying paint to a metal surface.
- Q.12 What is the name given to the component of paint, which evaporates when it is applied on the surface?

- Q.13 Write any one point defect.
- Q.14 Which term is used to describe peeling of paint film from painted surface?
- Q.15 Name a white pigment used in paint industry.
- Q.16 Name a binder used for making paint.
- Q.17 Name any one type of special effect additive used by paint industry.
- Q.18 What is the name give to the compound, which is added during paint formulation to enhance the capabilities of pigment used?
- Q.19 Name the type of cell in which chemical energy is converted into electrical energy.
- Q.20 Name the type of paint which release volatile organic compounds during its curing.

### SECTION-C

**Note:** Short answer type questions. Attempt any twelve questions out of fifteen questions. (12x5=60)

- Q.21 Discuss the need and importance of surface coatings in brief.
- Q.22 What are the requisites of good paint?
- Q.23 What are the advantages of using extenders in paint formulations?
- Q.24 Describes the different types of solvents used in the manufacture of paint.
- Q.25 What is difference between dip coating and spray coating?