

- Q.27 Define the terms
 a) Aeration b) Tackiness
 c) Opacity d) Foaming
- Q.28 Describe in brief the paint manufacturing process with help of flow sheet.
- Q.29 Define varnishes and lacquers. Also write their uses.
- Q.30 Define paint failure. Write the primary causes of paint failure.
- Q.31 Explain the terms with their uses and examples.
 a) Corrosion Inhibitors b) Flame retardants
- Q.32 What are solvents? Discuss the types and significance of solvents in paint formulation.
- Q.33 Describe in brief the need and importance of surface coating.
- Q.34 Explain the term primer, under coat and final coat.
- Q.35 Discuss the effects and uses of electroplating.

SECTION-D

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

- Q.36 Write short notes on :
 a) Classification of paint architectural coating
 b) Ball mill
- Q.37 Explain any five paint application techniques used for surface coating.
- Q.38 Describe pigments and types of pigments. Discuss any four properties of pigment.

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6th Sem / Branch : Chemical Engineering Sub.: Paint Technology

Time : 3Hrs.

M.M. : 100

SECTION-A

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

- Q.1 Which of the following is oxygenated solvent:
 a) Ketones b) Alcohols
 c) Esters d) All of these
- Q.2 Which of the following is used to kill bacteria, which attack water borne Paints.
 a) Flame retardants b) Biocides
 c) Anti skinning agent d) Corrosion inhibitors
- Q.3 Which of the following is Inorganic Pigment
 a) Red Lead b) BON red
 c) Hansa yellow d) Toluidine red
- Q.4 Paint that forms a smooth, shining and glossy film after applied to Surface.
 a) Lake b) Putty
 c) Enamel d) Sealer
- Q.5 Organic pigment that doesn't contain inorganic pigment or in organic base
 a) Tonar b) Lake
 c) Putty d) Sealer

- Q.6 Which of the following mill contains two S-shaped, intermeshing blades.
- a) Pug mill b) Ball mill
c) Roll mill d) Pebble mill
- Q.7 Which of the following is a solvent based Paint
- a) Acrylic paint b) Later Paint
c) Alkyd Paint d) None of these
- Q.8 Degeneration occurring in a coating during the passage of time or heating
- a) Aging b) Blistering
c) Chalking d) Cracking
- Q.9 Which of the following is a natural binder
- a) Alkyds b) Polyesters
c) Linseed oil d) Vinyl's
- Q.10 In electroplating _____ are deposited on other surfaces.
- a) Non metals b) Metals
c) Alloys d) None of these

SECTION-B

- Note:** Objective type questions. All questions are compulsory. (10x1=10)
- Q.11 Name any two binders used for thermoplastic powder coating.
- Q.12 _____ is a solution of a hard linear polymer in an organic solvent.
- Q.13 In which paint application technique, paint is deposited on a conductive surface from a water bath containing the paint?

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- Q.14 _____ is defined as the percentage of pigment volume in total volume of solids in the paint.
- Q.15 Name the paint defect in which there is attrition of film by natural weathering while may expose the substrate.
- Q.16 _____ may be defined as relative capacity of a pigment to impart color to the white base.
- Q.17 Name any two benefits of surface coating.
- Q.18 The ability of paint to completely obliterate (destroy) any underlying color is defined as _____.
- Q.19 Name any two fundamental constituents of paint.
- Q.20 Write any two uses of electroplating.

SECTION-C

- Note:** Short answer type questions. Attempt any twelve questions out of fifteen questions. (12x5=60)
- Q.21 Define PVC & CPVC and write its significance.
- Q.22 Explain chalking and skinning paint defect. Write its causes and their remedies.
- Q.23 Differentiate between electrochemical and electrolytic cell.
- Q.24 State two faraday's laws of electrolysis with their significance in electroplating.
- Q.25 Discuss the cleaning methods for substrate before electroplating.
- Q.26 Define pigment to binder ratio and solid content. Discuss its significance in paint formulation.

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