

- Q.24 Describe the working of roller mill in brief?  
 Q.25 Discuss the process of electrolysis in brief?  
 Q.26 Explain the solvent based paints in brief?  
 Q.27 Discuss the various causes of paint failure in brief?  
 Q.28 Describe the different catalytically active additives used in the manufacture of paint?  
 Q.29 Define and discuss pigment to binder ratio in brief?  
 Q.30 What is difference between electrolytic cell and electrochemical cell?  
 Q.31 What are lacquers? write uses of lacquers?  
 Q.32 Explain the varnishing technique in brief?  
 Q.33 What are extenders? why they are added in paint formulation?  
 Q.34 Describe skinning and Tackiness of paint in brief?  
 Q.35 What are the flame retardants? Discuss their functions in paints?

#### **SECTION-D**

- Note:** Long answer type questions. Attempt any two questions out of three questions. (2x10=20)  
 Q.36 Describe the spray coating and powder coating technique in detail with the help of a neat diagram?  
 Q.37 Explain the paint formulation process along with its various ingredients with the help of a flow diagram in detail?  
 Q.38 What is electro deposition ? Describe the different methods of cleaning articles before electro deposition in detail?

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**6th Sem / Branch : Chem.**

**Subject:- 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 not used as vehicle for paint?  
 a) Linseed oil      b) Mustard oil  
 c) Tung oil      d) Poppy oil  
 Q.2 A chemical that is used to prevent degradation of paint is called ?  
 a) Solvent      b) Pigment  
 c) Resin      d) Stabilizer  
 Q.3 The paints from which least organic fumes evolved are ?  
 a) Solvent based paint      b) Water based paints  
 c) Varnishes      d) resins  
 Q.4 Which of the following ingredient is added to paint to improve elasticity of paint film?  
 a) thinner      b) extender  
 c) Plasticizer      d) Vehicle

- Q.5 Which type of coatings can be applied to damp as well as dry surfaces?  
a) Solvent based coatings  
b) Varnish coatings  
c) water based coatings  
d) Oil based coating
- Q.6 The bubble formation on the painted surface is called?  
a) blistering                  b) blooming  
c) blushing                  d) bleeding
- Q.7 What is the main factor which affects the curing process of varnish?  
a) humidity                  b) microorganisms  
c) light                  d) carbon dioxide
- Q.8 What is the process of depositing a thin layer of metal onto a surface called?  
a) Galvanizing                  b) Electroplating  
c) Coating                  d) Painting
- Q.9 Which of following is not a ingredient for water based paints?  
a) thickening agent                  b) film-forming agent  
c) defoaming agent                  d) freezing agent
- Q.10 What is purpose of using vehicle component during paint formulation?  
a) To reduce cost of paint  
b) To spread paint evenly  
c) To increase binding power of paint  
d) To reduce cracking of paint

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## SECTION-B

- Note:** Objective type questions. All questions are compulsory. (10x1=10)
- Q.11 Write the name of a technique used for applying paint to a metal surface?
- Q.12 Define the thinner?
- Q.13 Which term is used to describe peeling of paint film painted surface?
- Q.14 Write the name of any one type of special effect additive used in paint industry?
- Q.15 Write is the name given to the compound, which is added during paint formation to enhance the capabilities of pigment used?
- Q.16 Write full form of PVC with reference to paint industry?
- Q.17 What is chalking?
- Q.18 Write the name of binder used for making paint?
- Q.19 Write the name of the any one additive used for making paint?
- Q.20 Which term is used to describe powdering of the paint film on painted surface?

## SECTION-C

- Note:** Short answer type questions. Attempt any twelve questions out of fifteen questions. (12x5=60)
- Q.21 Discuss the hydrocarbon solvents used in paint formulations?
- Q.22 What are requisites of a good paint?
- Q.23 What is different between drying oil and drier?

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