

- 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?

No. of Printed Pages : 4      180565/120565/030554A  
Roll No. ....

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

(2) 180565/120565/030554A

## 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?

(3) 180565/120565/030554A