

SECTION-D

Note: Long answer type questions. Attempt any three questions out of four questions. 3x10=30

Q.33 Describe the complete process for manufacture of paint with the help of a flow diagram in detail.

Q.34 What do you understand by the term paint failure? Discuss the some important types of paint failure along with remedial measures to be adopted to prevent the paint failure.

Q.35 What is pigment? Discuss its significance in paint formulation? Explain important properties of a good pigment for paint formulation in detail.

Q.36 Explain the following in detail.

(a) Pigment Volume Concentration

(b) Electroplating Method

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6th Sem. / Chemical Engg.

Subject : Paint Technology

Time : 3 Hrs.

M.M. : 100

SECTION-A

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

Q.1 Name a technique of applying paint to a metal surface.

Q.2 What is the name given to the component of paint, which evaporates when it is applied on the surface?

Q.3 Name a white pigment used in paint industry.

Q.4 Name a binder used for making paint.

Q.5 Name the type of paint which releases volatile organic compounds during its curing.

Q.6 Name any one type of special effect additive used by paint industry.

Q.7 Name the type of cell in which chemical energy is converted into electrical energy.

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Q.8 What is the name give to the compound, which is added during paint formulation to enhance the capabilities of pigment used?

Q.9 Write any one point defect.

Q.10 Which term is used to describe peeling of paint film from painted surface?

SECTION-B

Note:Very Short answer type questions. Attempt any ten questions out of twelve questions. 10x2=20

Q.11 Define Thinner.

Q.12 Write any two organic pigments used in the paint industry.

Q.13 What is water based paint?

Q.14 Define Tinting Strength.

Q.15 What is Vanish?

Q.16 Write name of any two dispersion equipment used for manufacturing paints.

Q.17 Define Refractive Index.

Q.18 What are corrosion inhibitors?

Q.19 State Faraday's first law of electrolysis.

Q.20 What is powder coating?

Q.21 Define chalking.

Q.22 Define the electrochemical equivalent.

SECTION-C

Note:Short answer type questions. Attempt any eight questions out of ten questions. 8x5=40

Q.23 Discuss the need and importance of surface coatings in brief.

Q.24 What are requisites of a good paint?

Q.25 What are Advantages of using extenders in paint formulations?

Q.26 Describe the different types of solvents used in the manufacture of paint.

Q.27 What is difference between dip coating and spray coating?

Q.28 Describe the different constituents of a varnish in brief.

Q.29 What are Lacquers? Write uses of Lacquers.

Q.30 Discuss the process of electrolysis in brief.

Q.31 What is difference electrolytic cell and electrochemical cell?

Q.32 Describe Skinning and tackiness of paint in brief.