

- Q.5 Describe the test procedures to find.
- a) Total solid contents of paint.
  - b) Volatile matter content.
- Q.6 List down five defects in paint film, their possible causes and remedies.
- Q.7 Write short notes on:
- a) Biological effects on paint films.
  - b) Drying time.

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**5th Sem. / Chem. Engg. (Spl. Paint tech.)**

**Subject : Quality Control and Testing of Coatings**

Time : 3 Hrs.

M.M. : 100

**SECTION-A**

**Note:** Very Short Answer type questions. Attempt any 15 parts. (15x2=30)

- Q.1
- a) Define quality.
  - b) Define weathering.
  - c) What is a paint?
  - d) Define volatile matter.
  - e) What is a binder?
  - f) Define permeability.
  - g) What is meant by a standard?
  - h) Define viscosity.
  - i) What is a dispersion?
  - j) Define colour fastness.
  - k) Define mar resistance.
  - l) Define opacity.

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- m) Expand PAC.
- n) What is a pigment?
- o) What are pin holes?
- p) Define flexibility.
- q) What is a solvent?
- r) What is a distemper?

### SECTION-B

**Note:** Short answer type questions. Attempt any ten parts 10x4=40

- Q.2
- i) Discuss the objectives of paint testing.
  - ii) What do you understand by evaluation test?
  - iii) Briefly discuss the methods of determination of density of a given paint.
  - iv) Write a short note on natural outdoor durability test.
  - v) How do we determine the water content in coatings?
  - vi) Discuss the measurement of colour fastness of coatings.
  - vii) Define abrasion resistance and its

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importance for coatings.

- viii) Briefly discuss about salt spray test.
- ix) Name and briefly explain about two standards used in paint industry.
- x) What do you understand by quality control procedures.
- xi) Why is it important to evaluate resistance of coatings to lubricating oils.
- xii) Briefly discuss about measurement of heat resistance of coatings.
- xiii) How is evaluation test important for paints.
- xiv) Give classification of different paint tests.
- xv) Write short note on air permeability.

### SECTION-C

**Note:** Long answer type questions. Attempt any three questions. 3x10=30

Q.3 Discuss the following.

- a) Wet opacity.
- b) Spreading capacity.

Q.4 Explain the evaluation of water based paints in detail.

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