



(Following Paper ID and Roll No. to be filled in your Answer Book)

PAPER ID : 222222

Roll No.

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B. Tech.

(SEM. VIII) THEORY EXAMINATION, 2014-15 SURFACE COATING TECHNOLOGY

Time : 3 Hours]

[Total Marks : 100

Note : Attempt ALL questions.

- 1 Attempt any Two of the following-: $2 \times 10 = 20$
- Name different constituents of paints with their respective functions.
 - Discuss the differences in ingredients of varnishes and lacquers.
 - Write a brief note on development of surface coatings.
- 2 Attempt any Two of the following-: $2 \times 10 = 20$
- Narrate the mechanism of film formation with one example.
 - Describe briefly various synthetic film formers with names.
 - Highlight different functions of coatings.

- 3** Write short notes on any Four of the following : 4×5=20
- a. Wetting agents
 - b. Plasticizers
 - c. Alkyd resin
 - d. Rosin
 - e. Solvents
 - f. Types of Pigments
- 4** Attempt any Two of the following : 2×10=20
- a. Briefly narrate various types of dispersion techniques used in making coatings.
 - b. What are usual surface preparation methods used in different substrates.
 - c. Briefly explain the rheological behaviour of coatings with example.
- 5** Attempt any Two of the following : 2×10=20
- a. What are various curing methods used for crosslinking.
 - b. Classify Speciality coatings with examples of each type.
 - c. Write a brief note on water based powder coatings and explain the reason for their popularity.
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