B. Tech. (PAINT TECHNOLOGY)
(SEM. VI) EXAMINATION, 2006-07
COATING PROPERTIES, EVALUATION & QUALITY CONTROL

Time : 3 Hours] [Total Marks : 100

Note : Attempt all questions. All questions carry equal marks.

1 Attempt any two of the following :
(a) What are the various factors responsible Adhesion and Flexibility of a surface coating films ?
(b) What is the importance of rheological behaviour of surface coatings ? How is it determined?
(c) Discuss general properties of surface coatings.

2 Attempt any two of the following :
(a) Discuss the role of quality control in surface coatings. Justify the statement "Quality is assured from the shop floor."
(b) Define Wet Film Opacity. How does it differ from Dry Film Opacity ?
(c) Discuss the detail procedure for testing of Weight Per Litre Fineness of Grind and Viscosity of paints.

V-9278] 1
3 Attempt any two of the following:
(a) Discuss the effect of Pigmentation in the performance properties of surface coatings.
(b) Describe the significance of 'PAC Test' in surface coatings. Describe the method used for this purpose.
(c) How the Permeability of a paint film is evaluated. What are the factors responsible for permeability of a paint film?

4 Attempt any one of the following:
(a) Discuss the significance of PIGMENT/BINDER analysis in surface coatings. How is it evaluated?
(b) Discuss the detailed procedure for testing and evaluation of NON-VOLATILE CONTENT and WATER CONTENT in surface coatings.

5 Attempt any one of the following:
(a) How is the Exterior Durability of an exterior paint determined? How are the conditions of natural weather stimulated in accelerated weatherometer?
(b) Discuss the factors responsible for biological deterioration of a paint films. How is it evaluated?