B. Tech.

(SEM. VI) EXAMINATION, 2006-07

CONTING PROPERTIES & QUALITY CONTROL

Time : 3 Hours] [Total Marks : 100

Note:
(i) Answer all questions.
(ii) All questions carry equal marks.
(iii) Be precise in your answer.

1. Attempt any two of the following : 10 × 2 = 20
   (a) Mention the basis of classification of paints.
   (b) Write the various properties of paint and discuss any one of them.
   (c) Define gloss. What are the factors, the gloss of a paint depends upon?

2. Attempt any two of the following : 10 × 2 = 20
   (a) Explain the working of Hegman Gauge with a neat sketch.
   (b) Differentiate between viscosity and consistency and give one example of testing the viscosity of a surface coating material.
   (c) How do we test the opacity of a paint?
3 Attempt any two of the following: \(10 \times 2 = 20\)
   (a) Give the reason of testing flexibility of a coating.
   (b) What is PAC and what for this test is important?
   (c) Explain briefly the procedure of testing a coating for fire resistant.

4 Attempt any two of the following: \(10 \times 2 = 20\)
   (a) What is the need of analysing paints for their ingredients?
   (b) Give the procedure for determining volatile matter, including water in a paint.
   (c) Discuss the role of instrumentation in the analysis of binder in the coatings.

5 Attempt any two of the following: \(10 \times 2 = 20\)
   (a) What do you understand by “Ageing of a coating”?
   (b) Explain the mechanism of “Weatherometer”
   (c) Discuss any one defect of dried paint film with proper remedial measure.

\[\text{V-9119] 2 [25]}\]