B. Tech. (PAINT TECHNOLOGY)  
(SEM. VIII) EXAMINATION, 2006-07  
ECO-FRIENDLY & SPECIALITY COATINGS

Time : 3 Hours]  
[Total Marks : 100

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

1 Attempt any two of the following:
   (a) Discuss the role of emission of volatile organic solvents in surface coatings.
   (b) Discuss the environmental aspects of eco-friendly coatings.
   (c) Discuss the role of water in eco-friendly coatings.

2 Attempt any two of the following:
   (a) Discuss the Cathodic Electrodeposition of Paints.
   (b) What are Waterborne Coatings? Explain any two of them.
   (c) What are Powder Coatings? Discuss the Binder Systems for them.

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3 Attempt any two of the following:
(a) Discuss different energy sources for radiation curable coatings.
(b) Discuss the factors affecting the performance of Electron beam curable coatings.
(c) Differentiate between Infrared curable coating systems and UV curable coating systems.

4 Attempt any two of the following:
(a) What are multicolour coatings? Explain with suitable formula.
(b) What are Electrical resistance coatings? Discuss in detail.
(c) Discuss the aqueous anticorrosive coating with a suitable formulation.

5 Attempt any two of the following:
(a) Coating for Electronic Appliances.
(b) Aerosols
(c) Rail road coatings.