



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

**PAPER ID : 187651**

Roll No.

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## B. Tech.

(SEM. VI) THEORY EXAMINATION, 2014-15  
**PLASTIC PACKAGING AND FOAM**

Time : 3 Hours]

[Total Marks : 100

**Note :** Attempt all questions.

- 1 Attempt any two of the following: **15×2=30**
- (a) Write down the advantages and disadvantages of polymeric packaging over conventional packaging materials.
  - (b) Discuss in detail the scope & functions of packaging.
  - (c) What are the techniques available for the evaluation of Foam morphology? And give a detailed account of Scanning Electron Microscopy.
- 2 Attempt any two of the following: **15×2=30**
- (a) Explain the forms of packages for bakery items, dairy products and industrial goods.
  - (b) Write down the different types of testing performed on polymeric film as per Indian standard.

- (c) Differentiate between rigid and flexible foam and describe the manufacturing method of polyurethane foam.
- 3** Attempt any two of the following: **15×2=30**
- (a) Define the effect of ingredients on the foam properties.
- (b) Write down the different types of polymeric materials used in foam with applications and discuss the recent advancement on foam.
- (c) Differentiate between polyurethane rigid and flexible foam and give their recent applications.
- 4** Attempt any two of the following : **5×2=10**
- (a) Development in polymer packaging,
- (b) Physical properties of cellular plastics,.
- (c) Factors affecting the properties of plastics films
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