

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

Paper ID : 187661

Roll No.

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B.TECH.

Theory Examination (Semester-VI) 2015-16

PLASTIC PACKAGING & FOAM

Time : 3 Hours

Max. Marks : 100

Section-A

- 1. Attempt all parts. All parts carry equal marks. Write answer of each part in short. (2×10 = 20)**

- (a) Packaging
- (b) Area of film Packaging
- (c) List the various materials used for the packaging
- (d) Beverages packaging
- (e) Selection criteria of polymeric packages for oils
- (f) Functional requirement of house hold and industrial goods
- (g) Significance of coefficient of friction
- (h) Significance of permeability test

- (i) Epoxy foam
- (j) Area of foam Packaging

Section-B

2. Attempt any five questions from this section.

(10×5 = 50)

- (a) Discuss in detail the scope & functions of packaging.
- (b) Write down the advantages and disadvantages of polymeric packaging over conventional packaging materials.
- (c) Write in detail the selection criteria of suitable polymeric packages for food products.
- (d) Explain different polymeric materials used in foam and write down the recent advancement on foam.
- (f) Explain the selection of packaging for medicines, dairy products and bakery items.
- (g) Explain the printing on polymeric packages.
- (h) Define the effect of ingredients on the foam properties.
- (i) Write short note on physical properties of cellular plastics.

(2)

Section-C

Note: Attempt any two questions from this section.

(15×2 = 30)

3. Explain the testing of polymeric film as per IS 2508 standard.
4. What are the techniques available for the evaluation of Foam morphology? Explain detailed account of Scanning electron microscope (SEM).
5. Differentiate between rigid and flexible foam and describe the manufacturing method of polyurethane foam.

