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B.Sc. FOOTWEAR TECHNOLOGY (BSCFWT) Term-End Examination June, 2015

00344

BFWE-044 : POLYMER TECHNOLOGY

Time : 3 hours

Maximum Marks: 70

Note : Attempt any **five** questions. All questions carry equal marks.

- 1. What are the various classes of polymers? Describe any one type of polymer with suitable examples.
- 2. Describe the functions of the following equipments used during polymer processing and draw neat diagrams for the following :
 - (a) Kneader
 - (b) Injection Moulding
- 3. Discuss the characteristics and advantages of the following: 7+7
 - (a) PVC
 - (b) **PU**
- 4. Explain the production of PVC unit sole with the help of a flow chart.

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5. Explain the processing characteristics and sequence of application of the following ingredients added during mixing of elastomers :

(a) Reinforcing Fillers

- (b) Antioxidants
 - (c) Accelerators
 - (d) Process Aids
 - 6. What are the ingredients used for EVA midsole compound ? Describe each ingredient. Also discuss the applications of EVA in footwear industry.
 - 7. Write the characteristics and applications of the following: $4 \times 3\frac{1}{2} = 14$
 - (a) EPDM Rubber
 - (b) Polystyrene
 - (c) NBR Rubber
 - (d) Chloroprene Rubber (Neoprene)

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