

**B.Sc. FOOTWEAR TECHNOLOGY (BSCFWT)**

**Term-End Examination**

**June, 2016**

00126

**BFWE-044 : POLYMER TECHNOLOGY**

*Time : 3 hours*

*Maximum Marks : 70*

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

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1. (a) Classify polymers based on origin.
- (b) What is the monomer of PVC ?
- (c) What do you understand by compounding of polymer ?
- (d) Write the various polymer processing techniques.
- (e) State the various polymers used for shoe uppers.
- (f) Define polymerization.
- (g) What do you understand by elastomers ?

*7×2=14*

2. Describe the various properties of EVA and also discuss the various ingredients added into EVA to make EVA compound for Hawaii chappals.

*14*

3. What do you understand by light weight soling materials ? Which materials are commonly used for making the sole light weight ? Describe the various properties required for light weight soling materials. 14
  4. Discuss the functions of an injection moulding machine. Explain the various parts of injection moulding machine using a diagram. 14
  5. Differentiate between Compression moulding process and Injection moulding process. 14
  6. Explain the production process of PVC sole with the help of a flow chart. Write the various properties of PVC as a soling material. 14
  7. Explain the following terms : 14
    - (a) Copolymer
    - (b) Vulcanization
    - (c) Blend
    - (d) Composite
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