No. of Printed Pages : 2

MFW-034

M.Sc. FOOTWEAR TECHNOLOGY (MSCFWT)

00214 Term-End Examination

June, 2014

MFW-034 : POLYMER AND DMS SPORTS SHOE TECHNOLOGY

Time : 3 hoursMaximum Marks : 70

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

- Write various applications of PVC polymer. What are the advantages and disadvantages of PVC as a soling material?
- What do you understand by macro molecular form of polymers ? Why are polymers called the most versatile material in the world ? Explain polymer versatility by giving suitable examples. 14
- 3. Explain the following terms by giving suitable examples : 14

1

- (a) Biodegradable polymers
- (b) Non-Biodegradable polymers

MFW-034

P.T.O.

- 4. Write the characteristics and applications of the following rubbers :
 - (a) Styrene Butadiene Rubber (SBR)
 - (b) Nitrile Butadiene Rubber (NBR)
 - (c) Chloroprene Rubber (Neoprene)
 - (d) EPDM Rubber
- 5. (a) How do you distinguish a polymer from its monomer ? Explain by giving examples.
 - (b) Explain the following :
 - (i) Degree of Polymerisation (DP)
 - (ii) Physical Properties of Polymers
 - (iii) Thermal Response of Polymers
 - (iv) Mode of Formation of Polymers 14
- 6. How are Plastic, Rubber and Fibre classified on the basis of their characteristics ? Classify the basis of fibre selection in the industries on the basis of their inherent properties.
- Explain how the application of poly-ethylene is widespread in various Industrial and Commodity applications. Compare the properties of HDPE and LDPE with suitable examples.
 14

14

14