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BFWE-044

B.Sc. FOOTWEAR TECHNOLOGY (BSCFWT)

Term-End Examination

00289

December, 2014

BFWE-044: POLYMER TECHNOLOGY

Time: 3 hours

Maximum Marks: 70

Note: Attempt five questions in all. Question no. 1 is compulsory. All questions carry equal marks.

- 1. (i) Classify polymers based on thermal behaviour.
 - (ii) What is the monomer of EVA?
 - (iii) What do you understand by compounding of polymers?
 - (iv) Which polymeric materials can be used for shoe soles?
 - (v) List the different types of rubbers.
 - (vi) List the various polymer processing techniques.
 - (vii) What are the polymeric materials used for shoe heels? $7 \times 2 = 14$
- 2. Describe in brief the various properties of rubber and also discuss about the various ingredients added into rubber to make rubber compounds usable for shoe sole.

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3.	Defi	ne the following :	7×2=14
`	(i)	Monomer	
	(ii)	Polymer	
	(iii)	Polymerisation	
	(iv)	Blends	
	(v)	Composites	
	(vi)	Copolymer	
	(vii)	Elastomer	
4.	with sequ	ain the production process of rubber of the help of a flow chart. Write ence-wise operation details for auction process.	
5.	List the various types of polyurethanes. What are the properties of polyurethanes? Discuss the various applications of polyurethanes in footwear industry.		
6.	ther ther	· ·	and the sed
7.	spor mak	is midsole an important component ts shoes? Which materials are used ing midsole in sports shoes? Describe erties required in midsole materials.	for