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BFWE-018

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B.Sc. FOOTWEAR TECHNOLOGY (BSCFWT) Term-End Examination June, 2015 00184

WE OLD - DOLVMED TECHNOLOGY -

Tir	ne : 3	hours Maximum Marks:	Maximum Marks: 70	
Note: Attempt any five questions. All questions carry equal marks.				
1.	(a)	What are the different types of polymers? Explain the processing of polyurethane for shoe sole manufacturing.	7	
	(b)	Discuss the various properties of rubber (natural) and also discuss the addition of the various compounding ingredients to rubber to make rubber compound for shoe sole.	7	
2.	(a)	Differentiate between thermosetting and thermoplastic polymeric materials.	7	
	(b)	Write the ideal qualities of soling materials.	7	
3.	(a)	Explain midsole. What are the various properties required in midsole? Enlist some polymeric materials used as midsoles.	7	
	(b)	Discuss TPR compounding in detail.	7	

4.	(a)	Write the various ingredients used for PVC compound for shoe sole. Discuss the advantages of TPR over rubbers.	7
	(b) ₂	Why is EVA used as shoe midsole material? Comment.	7
5.	(a) _.	What are the various chemical raw materials of a rubber compound?	7
•	(b)	Discuss the comparative characteristics of rubber, plastics and fibres on the basis of their physical properties and applications.	7
6.	(a)	Discuss the physical properties of PVC and PV as soling materials.	7
	(b)	Describe the classification of polymers on the basis of structure and thermal behaviour.	7
7.	Wr	ite short notes on the following: $4\times 3\frac{1}{2}$:14
	(a)	Sources of Polymers	
	(b)	Tacticity	
	(c)	Thermal Response	
	(d)	Line Structure	