

(b)

(c)

(a)

(b)

(c)

**Q.4** 

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BE - SEMESTER-VIII (NEW) - EXAMINATION - SUMMER 2018 Subject Code: 2182602/2182608 Date: 02/05/2018 Subject Name: Belts, hoses & Footwear Technology (Departmental Elective - III) Time: 10:30 AM to 01:00 PM **Total Marks: 70 Instructions:** 1. Attempt all questions. 2. Make suitable assumptions wherever necessary. 3. Figures to the right indicate full marks. Answer the following **Q.1** Draw the labeled diagram of Rubber Shoe. (03)(a) Write about the Belt Modulus & Specific Modulus for Conveyer Belt. (04)(b) Discuss the different principles which can be set down for the fitting of Hose (07)Couplings in general. **Q.2** Answer the following. (a) Write the properties & uses of EVA Soles. (03)Short Note on Upper Cutting by Water Jet cutting system. (b) (04)Discuss the general Compounding for Footwear. (c) (07)OR (c) Discuss in detail about Cellular Rubber -Soled (DV) Footwear. (07)Write the classifications of Hoses according to pressure ratings. Q.3 (a) (03)Explain the correct method of determining Braiding Angle. (b) (04)(c) What do you mean by Dross? Why it is not preferable for Hose Industry? How many (07)ways it is occurred? Discuss the different methods to remove it. **Q.3** Define the term 'Bend Radius'. State its importance. Write the formula for determine (03)(a) bend length. Discuss the Test method for Oil Suction & Discharge Hose. (04)(b) Short Note on General Inspection & Testing of Hose. (07)(c) Explain about Conveyor Belt properties like Troughability & Transition Distance **Q.4** (a) (03)according to the applications.

Write in detail about the different Polymers used for manufacturing of Conveyor Belt.

OR

(04)

(07)

(03)

(04)

(07)

Write about Steel Cord construction for Conveyer Belt.

Short Note on Spliced joint for Conveyer Belt.

Write the importance of Breakers for Conveyor Belt construction.

Discuss in detail about Compounding & Vulcanization of Conveyer Belt.



Write the importance of Yerrs Traisting construction for waw Fristranker com Which are the different methods for Yarn twisting? Which one is widely used? Why?
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(b)	Short Note on 'Repair of Flat Belting'.	(04)
(0)	Short field on Repun of Flut Berting.	(01)

(c) Explain the Building & Skiving processes for Wrapped V-Belts. (07)

OR

**Q.5** (a) Discuss the importance of Polyester Yarn selection for Cord Processing for (03) manufacturing of V belt.

(b) Discuss the Mechanical Properties for V-Belt. (04)

(c) Write about Control Factors of Grinding Resistance for processing of V-Ribbed Belts. (07) Also write about the types of Grinding Stones.

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