

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

**Term-End Examination**

**December, 2013**

**BFWE-017 : PRODUCTIVITY - I**

00251

*Time : 3 hours*

*Maximum Marks : 70*

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*Note : Attempt any seven questions.*

*All questions carry equal marks.*

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1. What do you understand by the term 'Productivity' ? Explain. How the productivity of the following department is indicated ? 10
  - (a) Clicking
  - (b) Stitching
  - (c) Lasting
  - (d) Packing
2. Does productivity varies from one design to another design ? Take the case of footwear and discuss the reasons for variation. 10
3. Why process planning is necessary ? What role it plays in designing of conveyor of stitching and lasting department ? 10
4. Write short notes on any two of the following : 5x2=10
  - (a) Standard time application in clicking
  - (b) Method of computing standard time
  - (c) Performance rating
  - (d) Space productivity

5. 'High rate of rejection is negative factor for, increasing the productivity of the department. What are factors which can be responsible for high rate of rejection during the manufacturing process ? How these factors can be eliminated ? 10
6. What are the methods for increasing the productivity of stitching department ? Discuss each one briefly. 10
7. Explain method of computing standard time using stop watch method. How number of readings are determined for particular operation ? 10
8. What are the different types of conveyor used in the stitching department ? Discuss merits and demerits of each. 10
9. Indicate whether the productivity will increase or decrease in following cases with justification. 2.5x4=10
- (a) No. of operators increased, the out put is constant.
  - (b) No. of operators decreased, the out put is constant.
  - (c) Two additional operations are added to the existing design.
  - (d) No. of operators remained same, however helpers are increased, and production is constant.
10. What is synthetic time data ? Explain the application of synthetic time data for footwear industry. 10