

**M.Sc. FOOTWEAR DESIGN AND
PRODUCTION (MSCFDP)**

Term-End Examination

December, 2017

00770

**MFR-012 : PRODUCTION AND OPERATION
MANAGEMENT**

Time : 3 hours

Maximum Marks : 70

Note : Attempt any seven questions. All questions carry equal marks.

1. What is the importance of a Route Sheet ? What are the parameters which are considered for designing of a route sheet ? 10

2. Develop a process chart for Oxford cement. Explain various stages of inspection right from the stage of clicking to packing. 10

3. Explain the parameters of feeder operator and feeder mechanism. Draw a suitable diagram. 10

4. State *true* or *false* for the following statements :

(Explain with reasons)

$5 \times 2 = 10$

- (a) One of the main functions of the PPC is tender negotiation.
- (b) Inspection stages are determined by the process engineer than PPC.
- (c) PPC in the job shop production makes supervisors ineffective.
- (d) Route sheet is used for the calculation of the capacity of the line.
- (e) One of the easiest ways to increase productivity is overtime.

5. A toecap Oxford shoe has 10 (ten) upper components / pairs which are made of cow corrected grain leather, black colour having grade 2. It has 8 lining components (02 vamps, 04 quarter linings, 02 heel grips). All dies are new and there is a possibility of cutting tongues from scrap leather. The polypropylene board is new. A total of 50 pairs are to be cut with the following range :

6/15, 7/20, 8/15

Calculate the standard time. Also, if the shop efficiency is 85% and operator efficiency is 75%, how many machines are needed to cut 1000 pairs/shift production ?

10

6. "A process engineer needs to consider a number of factors while laying down the manufacturing process of a job." What are these factors ? How do they influence process planning ? 10
7. Operation management is the most important function of organisation. Explain with reasons. 10
8. Make a flow chart for the calculation of machine capacity. 10
9. Write down the contribution of the following in operation management : 10
- (a) Henry Ford
 - (b) Taylor
 - (c) Gilbreth
 - (d) Deming
10. What are clicking dies ? Give the classification of dies. 10
-