MFW-033

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M.Sc. FOOTWEAR TECHNOLOGY (MSCFWT)

Term-End Examination

00450

December, 2017

MFW-033 : PRODUCTIVITY AND PRODUCTION AND OPERATION MANAGEMENT

Time : 3 hours

Maximum Marks : 70

Note: Answer any seven questions. All questions carry equal marks. Use of scientific calculator is permitted.

- Define the term Productivity. What are the different forms of productivity ? Explain the concept of each type of productivity and factors which influence productivity.
- 2. Define Forecasting. Discuss any two forecasting methods of your choice. 10
- **3.** Discuss the functions of production planning and control in a manufacturing organisation. 10

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- 4. Explain the procedure for time study and method study for calculation of standard time for a machine operator.
- 5. Can a plant layout principle be applied for forming a layout of an office ? What criteria would you use in designing such a layout ? Discuss.
- What do you understand by plant location decisions ? What are the factors that influence the selection of location for any plant ?
- 7. The activity details and their predecessors are given below along with their activity times. Construct the network diagram and find the critical path.

Activity	Predecessor	Activity time (weeks)
Α		4
В	Α	3
С	Α	2
D	В	5
Е	В	3
F	C, D	4
G	E, F	3

8. "Production is a value addition process." Explain with an example. Distinguish between 'Make to Stock' and 'Make to Order' production systems.

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10

10

10

10

- 9. What is Work Sampling ? Explain briefly the steps in work sampling study. What are its merits and limitations ? 10
- 10. Write short notes on any five of the
following:5×2=10
 - (a) Flexible Manufacturing Systems (FMS)
 - (b) Industrial Robot
 - (c) Job Design
 - (d) Delphi Method
 - (e) PERT
 - (f) Batch Production
 - (g) Critical Path Method (CPM)

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