B.Sc. FOOTWEAR TECHNOLOGY (BSCFWT)
Term-End Examination
00143   **June, 2014**

BFWE-043 : PRODUCTION AND OPERATION MANAGEMENT – III

Time : 3 hours   *Maximum Marks : 70*

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

1. Explain the functions of PPC for a footwear company and draw an organisation chart clearly showing PPC department in relation to other departments.   *10*

2. With reference to material planning in relation to costing sheet, state how you would control budgeting and material.   *10*

3. What is meant by in-process quality control ? Explain with the help of suitable examples.   *10*

4. Explain the different types of machines and tools used in testing department.   *10*

5. Define the term productivity. How is it different from production ? Give suitable examples to justify your answer.   *10*

6. Enlist different material handling equipments in a footwear manufacturing factory. Draw any two neat sketches. *10*

7. Discuss with suitable examples the process of launching a new product in the market. *10*

8. What are the similarities and differences between Materials Requirement Planning (MRP) and Just-in-Time (JIT) ? Can the good points of MRP and JIT be combined in a production system ? If so, how ? Explain. *10*

9. Explain different types of maintenance, giving suitable examples. Suggest an organisation structure for a medium-sized footwear company. *10*

10. A small firm intends to increase the capacity of a bottleneck operation by adding a new machine. Two alternatives A and B, have been identified, and the associated costs and revenues have been estimated. Annual fixed costs would be ₹ 4,00,000 for A and ₹ 3,00,000 for B; variable costs per unit would be ₹ 100 for A and ₹ 120 for B, and revenue per unit would be ₹ 150 for A and ₹ 160 for B.

(a) Determine each alternative's Break-even Point in units.

(b) At what volume of output would the two alternatives yield the same profit ?

(c) If expected annual demand is 12000 units, which alternative would yield the higher profit ? *10*