2019

(October)

BUSINESS ADMINISTRATION

(Honours)

(BBAC–302)

(Production and Operations Management)

(For the students of 2015, 2016 and 2017 batches only)

Marks : 75

Time : 3 hours

The figures in the margin indicate full marks for the questions

1. *(a)* What are the objectives and scope of production and operations management? 7

(b) Distinguish between product and process layout. 8

Or

(a) Describe various factors that are important in a location of facility decision. 7

(b) What is value analysis? Enumerate the steps involved in value analysis. 2+6=8

(Turn Over)

2. Compute the EOQ from the following : 15

No. of units bought at a time	*Price per unit* (₹)
Less than 1000	10.00
1000 to 2999	9.85
3000 and above	9.70

The ordering cost is ₹60 per order and the carrying cost is 20% of the price. Annual requirement of the item is 10000 units.

Or

(a) Write short notes on the following : 4+4=8

(i) VED analysis

(ii) ABC analysis

(b) Explain how codification and standardization help reduce inventories. If an item is stored under two different names, what kind of problem is foreseen? 7

3. *(a)* What is meant by production planning and control? 3

(b) What is 'dovetailing' of plans? 5

(c) How do you balance an assembly line? 7

Or

(a) What is scheduling? Discuss the objectives of scheduling and also the elements of scheduling production stages. 2+3+6=11

(b) Under what circumstances can Johnson's rule be used? 4

4. What is supply chain management? What are the key concepts in supply chain management? Discuss the importance of supply chain management. 4+5+6=15

Or

A firm produces two types of products *A* and *B* and sells them at a price of ₹2 and ₹3 respectively. Each product passes through two machines *M*1 and *M*2. Product *A* requires one minute of processing time on *M*1 and two minutes on *M*2. Product *B* requires one minute on *M*1 and one minute on *M*2. The machine *M*1 is available for not more than 6 hours while machine *M*2 is available for 10 hours during any working day. The firm wishes to determine its daily product mix so as to maximize revenue. Formulate the above as a linear programming problem and solve it graphically. 15

5. *(a)* Define quality. 2

(b) Write short notes on control charts and acceptance sampling. 3+3=6

(c) Briefly describe the benefits of TQM. 7

Or

(a) How is method study different from time study? 9

(b) Write short notes on ergonomics and work sampling. 3+3=6

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