

(Please write your Exam Roll No.)

Exam Roll No. 12

**END TERM EXAMINATION**

FIFTH SEMESTER [BBA] JANUARY-FEBRUARY 2023

Paper Code: BBA 303 Subject: Production & Operations Management

Time: 3 Hours Maximum Marks: 75

Note: Attempt five questions in all including Q.No.1 which is compulsory.

- Q1. Attempt any five from the following: (5x5=25)
- (a) Explain Transformation model.
  - (b) Distinguish between job-shop production and batch-shop production.
  - (c) "EOQ impacts cash flow planning". Discuss.
  - (d) Discuss about TQM and costs of quality.
  - (e) What roles are played by "black belt" and "green belt" members in six sigma projects?
  - (f) What role of IT in production and operation management?
  - (g) Differentiate between CAD and CAM.
  - (h) Differentiate between Q inventory system and P inventory system.
- Q2. Define production planning and control. Also, explain different elements of production planning and control. (12.5)
- Q3. What is product design? What approaches should be considered at the time of designing a product? Elucidate. (12.5)
- Q4. (a) Location decision is strategic decision and can have significant impact on success or failure of business. Discuss.  
 (b) What do you mean by Centre of gravity method and why it is useful? By using the following information of four markets provide a best plant location; (12.5)

A (20, 70) Sale 1500 units	B (70, 50) Sale 50 units	C (100, 80) Sale 200 units
D (40, 20) Sale 1000 units		

- Q5. What means of plant layout and how many different types of layout may be designed? Also, suggest relevant layout for hospital & dairy industries and why? (12.5)
- Q6. (a) An organization has annual requirement of material i.e. 2,00,000 units. The ordering cost for one order is Rs 2000. The per unit maintenance cost is 10% of unit price and unit price is Rs 1000. Calculate EOQ, total storage cost, numbers of orders and total ordering cost by using above given information.  
 (b) What different methods of purchasing are used at the time of purchasing materials? (12.5)

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- Q7. (a) What means of supply chain management and describe its process? (12.5)

(b) Discuss about ABC inventory control technique. Also, categorized the following stock items in A, B and C categories:

Item	Annual Usage in units	Cost per unit
U	1,20,000	350
V	20,000	200
T	40,000	90
Q	10,000	75
L	25,000	300
W	1500	350
K	1,00,000	50
M	80,000	500
J	8,000	50
X	4,000	100
P	6,500	60

- Q8. What means of plant maintenance? What different types of maintenance are carried out in organization and why? (12.5)

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