## 3/H-65 (viii) (O) (Syllabus-2015)

## 2022

(February)

## BUSINESS ADMINISTRATION

(Honours)

## (Production and Operations Management)

(BBAC-302)

(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) Define production and operations management (POM). Explain the various decision areas in a POM system. 2+5=7
  - (b) Briefly discuss the factors to be considered before deciding on the location of a manufacturing plant.

## Or

- (a) Discuss the salient features of a good plant layout.8
- (b) Write a note on value analysis. 7

### 22D/174 (Turn Over)

## (2)

**2.** Compute the EOQ from the following : 15

No. of units bought<br/>at a timePrice per unit<br/>(₹)Less than1000201000 to 2999183000 and above16

The order cost is ₹ 200 per order and the carrying cost is 1% of the price. Annual requirement of the item is 10000 units.

## Or

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	(a)	What do you mean by ABC analysis for material control?	5
	(b)	How is VED analysis different from ABC analysis?	5
	(c)	What do you understand by codification and standardization of materials?	5
3.	(a)	Write a note on production planning and control.	9
	(b)	What do you understand by assembly line balancing?	6
		01	
	(a)	What is scheduling?Discuss theobjectives of scheduling.4+7=3	11
	(b)	Under what circumstances can Johnson's rule be used?	4

22D/174 (Continued)

## (3)

- **4.** (a) What is supply chain management? Discuss its importance in operations management. 2+6=8
  - (b) Write a note on linear programming. 7

## Or

A company has factories at A, B and C which supply to warehouses at D, E, F and G. Monthly capacities of the factories are A 30 units, B 45 units, C 55 units.

Monthly demands at the warehouses are D 40 units, E 30 units, F 10 units, G 50 units.

The shipping cost in ₹ per unit from factories to warehouses is as given below :

Warehouses	D	E	F	G
Factories				
A	5	8	5	10
В	7	6	5	8
С	10	12	20	5

Using Vogel's approximation method, you are required to find an optimal shipping plan for the company.

- **5.** (a) Discuss the scope and benefits of total quality management (TQM) for an organization.
  - (b) Write a short note on six-sigma. 6

### 22D/174

( Turn Over )

15

9

### Or

- (a) What is just-in-time (JIT) manufacturing? Discuss the principles of JIT manufacturing. 3+6=9
- (b) Explain the difference between method study and time study.6

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