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

Odd Semester, 2020

(Held in March, 2021)

BUSINESS ADMINISTRATION

(Honours)

(BBAC-302)

(For the Students of 2015, 2016 and 2017 Batches Only)

(Production and Operations Management)

Marks: 75

Time: 3 hours

The figures in the margin indicate full marks for the questions

- 1. (a) Define Production and Operations
 Management (POM). What are the
 objectives of POM?

 3+5=8
 - (b) State the features of a good plant layout.

Or

- (a) Differentiate between process layout and product layout.
- (b) Describe the various factors that determine the decision to locate an industrial unit in North-East India.

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2. Compute the EOQ from the following :

	N	o. of units bought at a time	Price per unit (₹)		
		Less than 100	20 18 16		
		100 to 199			
		200 and more			
	carı	order cost is ₹30 per rying cost is 15% of the uirement of the item is 7	e price. Annual		
		Or			
	(a)	Write short notes on the	ne following : 4+4=8		
		(ii) ABC analysis			
	(b)	Briefly explain various for stock-taking policy.			
3.	(a)	What do you mean plan?	by production 4		
	(b)	What do you under concept of 'dovetailing'			
	(c)	Define aggregate plan Assembly Line Balancir	The state of the s		
		Or			

(a) What is scheduling? Discuss the objectives of scheduling. 3+4=7

(b) There are five jobs, each of which has to be processed on two machines A and B in the order AB. Processing times are given in the following table:

Job	Machine A	Machine B		
1	6	3		
2	2	7		
3	10	8		
4	4	9		
5	11	5		

Using Johnson's rule, determine a sequence in which these jobs should be processed so as to minimize the total processing time.

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- (a) Write a note on Supply Chain Management.
 - (b) What do you mean by linear programming?

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 = 20 units, B = 40 units and C = 35 units. Monthly demands at the warehouses are D = 16 units, E = 18 units, F = 31 units and G = 30 units. The shipping cost in 7 per unit

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from factories to warehouses is as given below:

Warehouses → Factories ↓	D	E	F	G
A	10	8	11	7
В	9	12	14	6
C	8	9	12	10

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

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- 5. (a) What is TQM? What are the benefits of TQM? 3+5=8
 - (b) What is just-in-time production? Explain the basic principles of a JIT manufacturing system. 3+4=7

Or

(a) What is time study? How is it different from method study?

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(b) Write a note on six sigma.

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