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## Code No: 743AA JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD MBA III Semester Examinations, December - 2019 PRODUCTION AND OPERATIONS MANAGEMENT

## Time: 3hours

Note: This question paper contains two parts A and B. Part A is compulsory which carries 25 marks. Answer all questions in Part A. Part B consists of 5 Units. Answer any one full question from each unit. Each question carries 10 marks and may have a, b, c as sub questions.

## PART - A

5 × 5 Marks = 25

5 × 10 Marks = 50

Max.Marks:75

1.a)	What is meant by production? Explain the systems concept of production?	[5]
b)	What are the responsibilities of process planning engineer?	[5]
c)	What are the factors influencing plant location? Explain?	[5]
d)	Explain about Johnson's algorithm?	[5]
e)	What is meant by inventory? Explain about material materials planning?	[5]

## PART - B

What is a 'strategy'? Explain about various types of strategies? [10]
 OR
 Explain about types of production systems? [10]
 Explain about

 a) Pilot plant development?
 b) Capacity planning? [5+5]
 OR

 Explain

 a) Steps in process planning?

- a) Steps in process planning?b) Steps in product design?
- The following are the potential sites for setting up of ice factory. Using the following details, decide which site can be picked up for setting up of ice factory? Annual demand is 3,000 units. Selling price per unit is Rs. 3,00/-

Fixed cost/year (Rs.)	Variable cost (Rs.)
50,000	135
1,00,000	110
1,20,000	120
	50,000 1,00,000

7. Write about advantages and disadvantages of group technology?

[10]

[5+5]



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8.	What is scheduling? Explain about schedule generation?	[10]			
-	OR				
9.	What is meant by job shop scheduling? Explain various types of schedules?	[10]			
10.a)	What are the abiantions of laterarted Material Management?				
10.a) b)	What are the objectives of Integrated Material Management? Discuss briefly the procedure to be followed for purchasing materials.	[5+5]			
0)	OR	[5+5]			
11.a)	Calculate Economic Order Quantity (EOQ) from the following:				
11.a)	Annual consumption 6,000 units				
	Cost of ordering Rs. 60				
	Carrying costs Rs. 2				
b)	From the following particulars, calculate the Economic Order Quantity (EOQ):				
2)	Annual requirements 1,600 units				
	Cost of materials per units Rs. 40				
	Cost of placing and receiving one order: Rs. 50				
	Annual carrying cost for inventory value 10%; carrying cost is estimated at cost	st price			
	of material.	[5+5]			
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