BBA 181304

Roll No. of candidate			anag	HOWBHURY CENTRAL LIBRARY (GIMT & FIPS)
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18/31 2021

B.B.A. 3rd Semester End Term Examination

PRODUCTION AND OPERATIONS MANAGEMENT

Full Marks - 70

Time - Three hours

The figures in the margin indicate full marks for the questions.

Answer question No. 1 and any four from the rest.

1. Say True/False:

 $(10 \times 1 = 10)$

- (a) The maximum rate of output that can be achieved under ideal conditions is represented by the effective capacity (True/False)
- (b) In job shop production, volume of output is high (True/False)
- (c) The extra stock maintained to avoid a stock out is called safety stock (True/False)
- (d) Carrying cost is significantly higher than ordering cost in, the EOQ model (True/False)
- (e) Services can be returned if the client is not satisfied (True/False)
- (f) In chase plan utilization of worker is varied (True/False)
- (g) Space craft are manufactured using a product layout (True/False)
- (h) The fixed cost is high and variable Cost is low, breakeven can be achieved over an extremely long duration (True/False)
- (i) One of the inputs of material requirement planning is product quality (True/False)
- (j) Cost of insurance is a type of carrying cost (True/False)
 (Answer any four)
- 2. (a) Explain the transformation process by taking an example of any product of your choice (6)
 - (b) Explain in details, the concept of breakeven analysis.

(9)

[Turn over

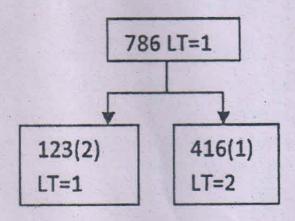
- 3. (a) "In a continuous production process volume of output is high but variety is low". Explain this statement with an example. (7)
 - (b) What are different components of product design? (8)
- 4. (a) What are the factors that influence the selection of new overseas location, for an established organistion? (7)

(b)					2.4	3	INA CHOWDHURY CENTRAL LIBRAR
	1	2	3	1	6	5	(GIMT & SIPS) (
	5	6	7	2	4	8	Friwahet -7(E-u17
	4	9	8	7	3	9	
	La	yout	A	La	yout	В	

Product	Sequence	Quantity
A	2-5 7-4	800
В	3-5-7-8-1	600
C	4-1-8-9-3	700
D	3-5-1-9	900

The distance between consecutive department is 12 meters and no diagonal movement is allowed. Based on the given data find the better layout on the basis of load-distance analysis. (8)

5. Explain the inputs of MRP.



For the above product structure the MPS 786 is, 450 units in week 4, and 600 units in week 7, Available inventory of 786 is 100 units and the rest can be procured on the basis of lot sizing. Item 123 can be bought in lot size of multiples of 1500 units and item 416 can be bought in lot size of multiples of 200 units, and have no available current inventory. Prepare a MRP on the basis of given information. (5+10=15)

Explain the concept of EOQ in details. 6. (a)

What are the dimensions of quality? (b)

(7)

(8)

Write short motes on (any three) 7.

 $(3 \times 5 = 15)$

- (a) Six Sigma
- (b) ABC analysis
- Outsourcing (c)
- (d) Fixed layout
- Cellular manufacturing. (e)

BINA CHOWDHURY CENTRAL LIBRANT

Ank Halkri wapara,