



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 organisation? (7)
- (b)

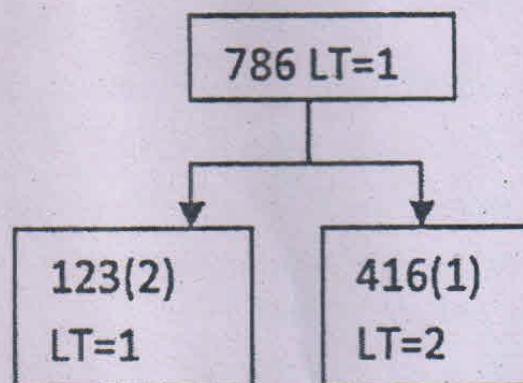
1	2	3	1	6	5
5	6	7	2	4	8
4	9	8	7	3	9
Layout A			Layout B		

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Product	Sequence	Quantity
A	2-5 7-4	800
B	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)

6. (a) Explain the concept of EOQ in details. (8)  
(b) What are the dimensions of quality? (7)
7. Write short notes on (any three) (3 × 5 = 15)
- (a) Six Sigma
  - (b) ABC analysis
  - (c) Outsourcing
  - (d) Fixed layout
  - (e) Cellular manufacturing.
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