

# END TERM EXAMINATION

FIFTH SEMESTER [BBA] DECEMBER 2015

Paper Code: BBA-305

Subject: Production & Operation Management

Time: 3 Hours

Maximum Marks: 75

Note: Attempt any five questions.

- Q1 (a) Elaborate Systems view of operations management, and discuss factors of production? (7.5)  
(b) Discuss various types of transformations with examples. (7.5)
- Q2 (a) What are acceptance Sampling Plans? Explain the SSP (Sequential Sampling Plans). (7.5)  
(b) Distinguish between defects and defectives. Explain the construction and use of a 'p' chart. (7.5)
- Q3 Explain various factors relevant for deciding the location of Pharmaceutical Plant. Discuss various Plant Location methods with merits and demerits of each. (15)
- Q4 Explain in brief four basic layout formats and draw a neat sketch of each type. Also explain the product-volume conditions under which it is appropriate to use each type of layouts. (15)
- Q5 Explain the following:- (3x5=15)  
(a) Poka – Yoke (b) Pillars of TQM. (c) Control charts
- Q6 (a) What is 'Line Structure' in waiting lines? Explain single channel – single phase, multi-channel-single phase and multi-channel-multiple phase line structures. (7.5)  
(b) Explain any one waiting line management technique with examples. (7.5)
- Q7 (a) Derive formula for Economic Order Quantity (EOQ) and state the assumptions of the model. (7.5)  
(b) A firm has several items of inventory. The average numbers of each of these items as well as their unit costs are listed below:- (7.5)

Item No.	Average no. of units in inventory	Average cost per unit (Rs.)
1	4000	1.96
2	200	10.00
3	440	2.40
4	2000	16.80
5	20	165.00
6	200	6.00
7	160	76.00
8	3000	3.00
9	1200	1.90
10	6000	0.50
11	1800	25.00
12	130	2.70
13	4400	9.50
14	3200	2.60
15	1920	2.00
16	800	1.20
71	3400	2.20
18	2400	10.00
19	150	21.00
20	320	4.00

The firm wishes to adopt ABC Inventory System. Classify them and explain the criteria for classification.

- Q8 Explain the following:- (3x5=15)  
(a) Benchmarking (b) Assembly Line Balancing (c) OC curve.