



MBA.F.III/10.117

**M.B.A. DEGREE (F.T) III SEMESTER EXAMINATION NOVEMBER 2010**

**SMS 2301 PRODUCTION AND OPERATIONS MANAGEMENT**

Time : 3 Hours

Maximum Marks : 50

(5 x 10 = 50)

- I. A. (a) What are the functions of an operations manager? (5)  
(b) What is the relationship between operations management and finance, marketing and H.R? (5)
- OR**
- B. (a) What has been the effect of automation in industry on the working of an operations manager? (5)  
(b) Explain the different types of production systems. (Hint : Job shop etc.) (5)
- II. A. (a) What are the steps in getting ISO 9000 certified? (5)  
(b) What are the arguments in favour of doing acceptance sampling? (5)
- OR**
- B. (a) Explain Statistical Process Control and how it is done with variables and attributes. (5)  
(b) What is OC curve? Indicate Producer's risk and Consumer's risk in it. (5)
- III. A. Explain the different types of layouts giving examples where each is used. (10)
- OR**
- B. (a) Differentiate between method study and time study. (5)  
(b) What are the factors to be considered in a location decision problem? (5)
- IV. A. A company uses 80,000 units of a component per year. Its ordering cost is Rs. 500/- per order. Its carrying rate is 20% of unit price per annum. The unit now costs Rs. 100 per piece. The supplier lead time for supply is 30 days with a standard deviation of 3 days. Find the EOQ. Design the Inventory model with Re-order level and safety stock, and give the values of ROL Safety stock. (10)
- OR**
- B. (a) How are process selection decision and product design decision related? Explain with an example. (5)  
(b) Explain the working of KANBAN with a suitable sketch. (5)
- V. A. (a) What are the advantages and disadvantages of MRP? (5)  
(b) Why is preventive maintenance advisable compared to breakdown maintenance? (5)
- OR**
- B. (a) What is Aggregate Planning? Explain. (5)  
(b) Differentiate between production planning and production control. (5)

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