

## Eighth Semester B.E. Degree Examination, June/July 2016

### Operations Management

Time: 3 hrs.

Max. Marks: 100

*Note: Answer any FIVE full questions, selecting atleast TWO questions from each part.*

#### PART – A

1.
  - a. Define operation management. Draw the operations management system showing input and output model for an international airport. (06 Marks)
  - b. Briefly explain how service producers differ from goods producers in important aspects of their operations. (06 Marks)
  - c. With neat schematic sketch, explain the frame work for managing operations. (08 Marks)
2.
  - a. Define decision making. Explain the frame work for decision making. (06 Marks)
  - b. Two assembly robots X and Y working at the same rate together produce 400 filters per day. During a recent day, 40 filters were found defective, given that the filter is defective, there is 0.40 probability it was produced by robot X (i.e.,  $P_{X/D} = 0.40$ ). What is the probability that a filter selected at random is : i) Defective ii) Produced by robot Y iii) Defective and produced by robot X iv) Defective or produced by robot X. (04 Marks)
  - c. Define BEP. Briefly explain the various methods of lowering the breakeven point. (10 Marks)
3.
  - a. Briefly explain the following : i) Time series forecasting ii) Forecasting error and tracking signal. (10 Marks)
  - b. The following table gives the annual shipment (tons) of welded tube by an aluminum producer to machinery manufacturers :

| Year            | 2004 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 2014 |
|-----------------|------|----|----|----|----|----|----|----|----|----|------|
| Shipment (tons) | 2    | 3  | 6  | 10 | 8  | 7  | 12 | 14 | 14 | 18 | 19   |

- Use the least square method to develop a linear trend equation for the data given, state the equation and forecast the shipment for 2015. (10 Marks)
4.
    - a. Define capacity planning. Explain long-terms and short-terms capacity strategies. (05 Marks)
    - b. The individual component capacities (in units/day) for an assembly line that consists of five activities are shown in the figure below Fig. Q4(b). (05 Marks)

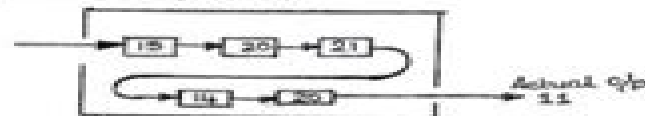


Fig. Q4(b)

- i) What is the system capacity?
  - ii) What is the efficiency of the system?
- c. Annual demand for a manufacturing organization capacity is expected to be as follow :

| Unit demanded | 8000 | 10000 | 15000 | 20000 |
|---------------|------|-------|-------|-------|
| Probability   | 0.5  | 0.2   | 0.2   | 0.1   |

Revenues are ₹35/unit. The existing manufacturing facility has annual fixed cost/operation are ₹2 lakhs. Variable manufacturing cost are ₹7.75/unit, ₹5/unit, ₹5.33/unit & ₹7.42/unit at the 8000, 10000, 15000 and 20000 unit output level respectively. An expanded facility under consideration would require ₹2,50,000 fixed operating cost annually. Variable cost are ₹9.4/unit, ₹5.2/unit, ₹3.8/unit and ₹4.9/unit at the 8000, 10000, 15000, 20000 unit output level receptively. In order to maximize the earnings which size facility should be selected?

(10 Marks)

# Sample Question Paper Third Semester Mechanical

**LL Leslie**

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