MODEL QUESTION PAPER
UNIVERSITY OF KERALA
Sub: 13.405 OPERATIONS MANAGEMENT (N)

Duration: 3 Hours                                                                                        Maximum: 100 Marks

Part-A (Answer all the questions)

1. Name the demand forecasting methods
2. State different errors in forecasting
3. Differentiate service level and safety stock.
4. State a structured BOM
5. What is SLP?
6. Name the software packages used for SLP.
7. What is MRP II?
8. Differentiate scheduling and sequencing.
9. What do you mean by agile manufacturing?
10. What is ERP?

(10 × 2 = 20 marks)

Part-B (Answer any one question from each module)

(4 × 20 = 80 marks)

Module-I

11. Suppose the forecast of 165 units made for demand in every period data given below

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</thead>
<tbody>
<tr>
<td>Demand</td>
<td>150</td>
<td>160</td>
<td>165</td>
<td>175</td>
<td>180</td>
</tr>
<tr>
<td>Forecast</td>
<td>165</td>
<td>165</td>
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<td>165</td>
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Calculate various forecast errors.

12. Alpha industries estimate that it will sell 12000 units of its product for the forthcoming year. The ordering cost is Rs 100 per order and the carrying cost per unit per year is 20% of the purchase price per unit. The purchase price per unit is Rs 50.
(a) Economic order quantity

(b) Number of orders per year

(c) Time between successive orders.

Module- II

13. Explain what is master production schedule? What are its features?

14. Explain MRP. State its concepts and advantages.

Module- III

15. What are the types of layout? Make its comparison.


Module- IV

17. Explain the features of business process Re-engineering.

18. Explain the heuristic procedure of schedule generation.