14760

M. Tech 2nd Semester Examination

Production Planning & Control

PE-209

Time : 3 Hours   Max. Marks : 100

The candidates shall limit their answers precisely within the answer-book (40 pages) issued to them and no supplementary/continuation sheet will be issued.

Note : (i)   Attempt any five questions

        (ii) All questions carry equal Marks

1. (a) What are the different methods of market survey? Describe and evaluate one method of market survey in detail.

    (b) Discuss the various approaches to determine machine capacity. How do they differ from each other?

                                     (2×10=20)

2. Write a short note on the following:

    (a) Capacity analysis

    (b) Scheduling

    (c) Job card inventory control

    (d) Material purchasing.   (4×5=20)

3. (a) Distinguish between planned receipt and scheduled receipt.

    (b) What is Total Quality Management? What are important elements of TQM? Explain how each contributes to products and services of superior quality?   (2×10=20)

4. What do you mean by forecasting? List out the different forecasting techniques for established product and new product. Explain any one technique in detail.   (20)

5. (a) What do you understand by operation management? What are the importance and function of the operation management? Explain briefly the evolution from manufacturing to operation management.

    (b) Define production system. How does Concept of production system help in understanding of POM?
                                                      (2×10=20)

6. What is mass customization? Explain in detail with its characteristics

    (a) Process production

    (b) Batch production

    (c) Continuous production

    (d) Lean and agile manufacturing   (4×5=20)

7. Define facility layout. What are objectives of facility layouts? Name the different types of layouts for manufacturing operations. Explain any one in detail.   (20)

8. Write Short Notes on the following :

    (i)   Route Sheet

    (ii) Bill of Material

    (iii) ABC Analysis

    (iv) Qualitative forecasting techniques.   (4×5=20)