



B.TECH.

THEORY EXAMINATION (SEM-VIII) 2016-17
PRODUCTION & OPERATIONS MANAGEMENT

Time : 3 Hours

Max. Marks : 100

Note : Be precise in your answer. In case of numerical problem assume data wherever not provided.

SECTION – A

1. Explain the following:

10 x 2 = 20

- Explain the evolution of operations management.
- Enlist the factors considered for designing products.
- State four significance of good plant layout.
- What are the elements of project management?
- Explain the term: Operations scheduling.
- What are the dimensions of quality?
- Why aggregate planning is done.
- Name the work measurement techniques.
- What are plant location decisions?
- List out the various activities involved in Job design.

SECTION – B

2. Attempt any five parts of the following questions:

5 x 10 = 50

- What are the primary and secondary factors taken in to account while choosing an appropriate site for a manufacturing plant.
- Give the classification of plant layout with relative merits and demerits.
- Explain the various phases of project management.
- What do you understand by production Scheduling. Why it is done. Also explain the Master Production Scheduling.
- Identify the differences between manufacturing resource planning (MRP II) and materials requirements planning (MRP). Explain each difference clearly.
- Explain the various strategies involved in aggregate planning.
- "Don't inspect quality, quality should be inbuilt". Comment.
- Briefly explain the TQM concept. Also discuss the dimensions of quality in terms of goods and services.

SECTION – C

Attempt any two parts of the following questions:

2 x 15 = 30

- What do you understand by service design? Discuss the various characteristics of service design. Also explain the factors influencing service design.
- Explain the various operations strategies applied for gaining competitive advantage by a manufacturing firm.
- "World class manufacturing is a collection of concepts, which set standard for production and manufacturing for another organization to follow". Comment. Also explain the principles and techniques of world class manufacturing.

