

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**

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

SECTION – B**2. Attempt any five parts of the following questions:****5 x 10 = 50**

- (a) What are the primary and secondary factors taken in to account while choosing an appropriate site for a manufacturing plant.
- (b) Give the classification of plant layout with relative merits and demerits.
- (c) Explain the various phases of project management.
- (d) What do you understand by production Scheduling. Why it is done. Also explain the Master Production Scheduling.
- (e) Identify the differences between manufacturing resource planning (MRP II) and materials requirements planning (MRP). Explain each difference clearly.
- (f) Explain the various strategies involved in aggregate planning.
- (g) “Don’t inspect quality, quality should be inbuilt”. Comment.
- (h) 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**

- 3 What do you understand by service design? Discuss the various characteristics of service design. Also explain the factors influencing service design.
- 4 Explain the various operations strategies applied for gaining competitive advantage by a manufacturing firm.
- 5 “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.