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B TECH (SEM VIII) THEORY EXAMINATION 2018-19 PRODUCTION & OPERATION MANAGEMENT

Time: 3 Hours Total Marks: 100

Note: 1. Attempt all Sections. If require any missing data; then choose suitably.

SECTION A

1. Attempt *all* questions in brief.

 $2 \times 10 = 20$

- a. Define operation management.
- b. How operation management is different from production management?
- c. What is the scope of SLT?
- d. List any two factors that must be considered while locating a service facility.
- e. List any two limitations of CPM.
- f. What is meant by work measurement?
- g. Define scheduling.
- h. What is aggregate planning for production?
- i. Explain large range capacity planning.
- j. What is rough cut capacity?

SECTION B

2. Attempt any *three* of the following:

10x3 = 30

- a. Define production management. How does it work? Discuss about its evolution.
- b. Discuss system view of production system. What are the operative strategies for competitive advantages?
- c. Explain the various function of an organization.
- d. Define Departmentation. Explain its need in an industry in detail.
- e. Describe the designing process of the product followed by any industry.

SECTION C

3. Attempt any *one* part of the following:

10x1=10

- a. Enlighten the various production and operation standards.
- b. Identify the important operations priorities and explain them in brief.

4. Attempt any *one* part of the following:

10x1=10

- a. What is planning? Discuss in detail about the process layout planning.
- b. Differentiate between product and fixed position layout. Also state their applications.

5. Attempt any *one* part of the following:

10x1=10

a. Discuss about planning techniques used in work measurement along with its different types and methods for it.

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b. What considerations must be made while planning capacity for service facility/manufacturing?

6. Attempt any *one* part of the following:

10x1=10

- a. Explain in brief the following: -
- A. Job Description
- B. Job specification
- C. Point system of job evolution
- b. What do you mean by operation schedule? Discuss its categories with the help of case study.

7. Attempt any *one* part of the following:

10x1=10

- a. What is MRP? Discuss its role in production industry.
- b. Describe different ways and methods derived for meeting out competition at global level.