

BTECH
(SEM VII) THEORY EXAMINATION 2018-19
PROJECT MANAGEMENT

*Time: 3 Hours**Total Marks:100**Notes: Assume any Missing Data.***SECTION A**

1. **Attempt all questions in brief.** **2 x10 = 20**
- a. Define Forecasting.
 - b. What is life cycle of a project?
 - c. What are the four stages in a project life cycle?
 - d. What is the effect of unbalanced project?
 - e. Define nature of project management.
 - f. Discuss about PERT.
 - g. What is CPM?
 - h. Define CPM model.
 - i. What is SCBA?
 - j. What is the role of a product organization?

SECTION B

2. **Attempt any three of the following:** **10 x 3 = 30**
- a. Define product organization. Discuss its various elements and significance.
 - b. Discuss the various aspects of feasibility study.
 - c. A project has 10 activities (A,B,C,D.....,J) the time required for each of the ten activities and the precedence relationships between the activities are as under:

Activity	A	B	C	D	E	F	G	H	I	J
Proceeding activity	None	None	A&B	A	C	A&B	F	G	G	I
Time(days)	40	20	15	25	15	25	10	15	10	15

- Draw a bar chart and find out the project completion time.
- d. What do you understand by project scheduling? Define the logical sequence of activities. Why is it necessary?
 - e. Define various types of scheduling techniques. Discuss the concept of BAR Graph along with advantages and limitations of the same.

SECTION C

3. **Attempt any two part of the following:** **5 x 2 = 10**
- a. Write short notes on:
 - i. Critical path method along with it characteristics
 - ii. Time cost Trade Off
 - iii. Performance analysis.
 - iv. Resource allocation.

4. Attempt any *two* part of the following: 5 x 2 = 10

- a. Differentiate between:
 - i. Project cost vs project completion time
 - ii. Direct cost and indirect cost
 - iii. Normal time and crash time

5. Attempt any *one* of the following: 10 x 1 = 10

- a. What are the various types of appraisal in an organization? Explain each one of them in brief.
- b. Discuss the complexity involved in project scheduling. How resource allocation is done?

6. Attempt any *two* of the following: 5 x 2 = 10

- a. The actual demand of a product for the year 1992 is 20500. The value of α is .32. The actual demand of the warm-up period is 19980. Construct a table of forecasts using exponential smoothing method for the period 1993-2001. The actual demand for the period 1993-2001 are found to be 20200, 20310, 20450, 20610, 20760, 20815, 21005, 21090 and 21180 respectively.
- b. "PM is the best suited conversion method" discuss.
- c. What do you understand by Human Resources? How it is organized?

7. Attempt any *two part* of the following: 5 x 2 = 10

- a. Give a brief description:
 - i. Break Even analysis
 - ii. Project contracts and its types.
 - iii. Decision networks and probabilistic network.
 - iv. Computer aided project management.