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**B TECH**  
**(SEM-V) THEORY EXAMINATION 2020-21**  
**QUANTITY ESTIMATION AND MANAGEMENT**

Time: 3 Hours

Total Marks: 70

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

**SECTION A**

1. Attempt all questions in brief.

2 x 7 = 14

a.	What is centre line method?
b.	Differentiate between Event and Activity.
c.	Differentiate between free float and total float.
d.	Write the classification of scheduling.
e.	Define interest rate. How interest rate can be classified?
f.	Enumerate the limitations of Bar chart.
g.	Give the criteria for selecting the tower crane.

**SECTION B**

2. Attempt any three of the following:

7 x 3 = 21

a.	Define organization and explain its types.
b.	Explain the various conveying equipments in detail.
c.	What do you understand by 'analysis of rates'? What are purposes of rate of analysis?
d.	Compare direct and indirect cost in the construction project.
e.	What are the various steps for evaluation of Tenders?

**SECTION C**

3. Attempt any one part of the following:

7 x 1 = 7

(a)	Describe about the depreciation and break even cost analysis of construction projects.
(b)	Life of a building is 80 years, and two choices are available for particular component of the building. Choice A: Initial and replacement cost as Rs.4000 and life of the component is 20 years. Choice B: Initial and replacement cost as Rs.6000 and life of the component is 40 years. If money worth is 5%. Find the most economical choice.

4. Attempt any one part of the following:

7 x 1 = 7

(a)	What are the various types of heavy hauling equipment vehicles? Also write in brief, their relative advantages, and disadvantages.
(b)	Explain the tunneling equipments with neat sketches.

5. Attempt any one part of the following:

7 x 1 = 7

(a)	Write short notes on: Tender, Earnest money deposit and Commissioning of project.
(b)	Explain in detail about different types of contract and their relative advantages and disadvantages.

6. Attempt any one part of the following:

7 x 1 = 7

(a)	What are the general guidelines for monitoring the extra item on construction site?
(b)	Explain the different types of specifications and their importance in construction project.

7. Attempt any one part of the following:

7 x 1 = 7

(a)	What are the six main functions of management in undertaking a construction project? Discuss.
(b)	Explain the labour requirement for different works according to National Building Code.