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21CV61

**Sixth Semester B.E. Degree Examination, June/July 2024**  
**Construction Management and Entrepreneurship**

Time: 3 hrs.

Max. Marks: 100

**Note:** Answer any FIVE full questions, choosing ONE full question from each module.

**Module-1**

- 1 a. Define Management. Explain the characteristics of Management. (08 Marks)  
 b. Explain the functional areas of Management. (08 Marks)  
 c. Discuss the dependencies in a Gantt chart, with neat sketches. (04 Marks)

**OR**

- 2 a. With illustration, explain AoA and AoN Network diagrams. (08 Marks)  
 b. A Project consists of the following activities. Draw the network diagram, calculate EST, EFT, LST, LFT, FT and FF. (08 Marks)

Activity	10-20	10-30	20-40	30-40	20-50	40-50
Duration (days)	13	12	2	8	15	2

- c. What is Work Break down structure? Mention its uses. (04 Marks)

**Module-2**

- 3 a. What are the factors affecting Labor Productivity in Construction Industry? Briefly explain. (08 Marks)  
 b. Calculate time required to grade and finish 50 kms of road formation with width equal to thrice the width of the motor grader, using six passes of the motor grader with speed for each of the successive two passes as 6 km/h, 8km/h and 10km/h respectively. Assume machine efficiency based on operation skill, machine characteristic and working condition as 80%. (08 Marks)  
 c. Discuss the class of labour in Construction Project. (04 Marks)

**OR**

- 4 a. Briefly explain the points to be considered for selection of Construction Equipments. (08 Marks)  
 b. A Company has purchased an equipment of Rs 1,50,000 with an estimated life of 10 years. The estimated salvage value of the equipment at the end of its lifetime is Rs 25,000/-. Determine the depreciation charge and book value at the end of various years using the decline balance method of depreciation by assuming 0.2 for K. (08 Marks)  
 c. List out the functions of Materials Management. (04 Marks)

**Module-3**

- 5 a. Explain the process of Project Quality Management. (10 Marks)  
 b. Explain the safety measures adopted during drilling and blasting. (10 Marks)

**OR**

- 6 a. Discuss in detail about the cost of Quality in Construction. (10 Marks)  
 b. Explain the types of Conflict of Interest. (06 Marks)  
 c. Discuss the following :  
 i) Gift and Bribes ii) Whistle Blowing. (04 Marks)

**Module-4**

- 7 a. What is Engineering Economy? Explain the principles of Engineering Economics. (08 Marks)  
 b. An engineer has two bids for an excavator to be installed in a new building. The detail of the bids for the excavator are as follows :

Bid	Engineer's Estimate		
	Initial Cost (Rs)	Service Life (Years)	Annual Operation Maintenance Cost
Company A	10,50,000	15	60,000
Company B	11,00,000	15	70,500

Determine which bid should be accepted based on the present worth method of comparison assuming 18% interest rate, compounded annually. (12 Marks)

**OR**

- 8 a. Explain Break Even Analysis. Mention the assumptions of Break Even Analysis. (08 Marks)  
 b. Determine the effective interest rate for a nominal annual rate of 8% that is compounded.  
 i) Daily ii) Monthly iii) Quarterly iv) Semi annually. (12 Marks)

**Module-5**

- 9 a. Discuss in detail about the Project report for starting a new venture. (10 Marks)  
 b. Explain the role and significance of Venture Capital. (10 Marks)

**OR**

- 10 a. Explain different types of feasibility study carried out to start business. (10 Marks)  
 b. What are the different ways to entry into International business? Explain any two ways. (10 Marks)

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