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## Fifth Semester B.E. Degree Examination, Feb./Mar. 2022 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. Explain the functional areas of Management. (08 Marks)
- b. List and explain the Nature or characteristics of Planning. (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. The activity data of a project is given in the table below :

Activity	Predecessor	Duration
A	-	5
B	A	4
C	-	6
D	C	3
E	-	5
F	E	3
G	D, F	6
H	D, F	8
I	B, G	4
J	B, G	7
K	H, I	5
L	J, K	2

Draw the network diagram, Identify the critical path and Project duration using CPM. (08 Marks)

- c. Discuss the types of Management Styles. (04 Marks)

### Module-2

- 3 a. Explain i) Minimum Wages Act 1948 ii) The Labour Welfare Fund Act 1965 (08 Marks)
- b. Explain the importance of Resource Management in the construction of a Project. (08 Marks)
- c. Discuss the types of Maintenance. (04 Marks)

**OR**

- 4 a. Define Labour Production Rate or Productivity. Discuss the factors affecting Productivity. (10 Marks)
- b. The initial cost of a piece of construction equipment is Rs 35,00,000. It has a useful life of 10 years. The estimated salvage value of the equipment at the end of useful life is Rs 5,00,000. Calculate the Annual depreciation and Book value of the construction equipment using Sinking fund method. The interest rates is 8% per year. (10 Marks)

Important Note : 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.  
2. Any revealing of identification, appeal to evaluator and /or equations written eg, 42+8 = 50, will be treated as malpractice.

**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 : (04 Marks)  
 i) Gifts and Bribes                      ii) Whistle Blowing.

**Module-4**

- 7 a. Define Engineering Economics. Explain the principles of Engineering Economy. (08 Marks)  
 b. With illustration, explain Cash Flow diagram. (06 Marks)  
 c. Differentiate between Micro and Macro Economics. (06 Marks)

**OR**

- 8 a. Explain Break Even Analysis. Mention the assumptions of Break Even Analysis. (08 Marks)  
 b. A firm has identifies two mutually exclusive investment proposals for new project whose details are given below. The life of all the two alternatives is estimated to be five years with negligible salvage value. The minimum attractive rate of return for the firm is 12%. Find the best alternative based on the rate of Return method of Comparison. (12 Marks)

	Alternative 1	Alternative 2
Investment	1,50,000/-	3,10,000/-
Annual Net Income	50,000/-	90,000/-

**Module-5**

- 9 a. Explain the stages in Entrepreneurial Process. (10 Marks)  
 b. Discuss in detail about the Project report for starting a new Venture. (10 Marks)

**OR**

- 10 a. Explain the role and significance of Venture Capital. (10 Marks)  
 b. Mention the objectives and functions of following agencies : (10 Marks)  
 i) KIADB                                      ii) TECSOK.

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