

# CBCS SCHEME



18CV51

## Fifth Semester B.E. Degree Examination, Dec.2024/Jan.2025 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 in brief the types of plans based on various factors. (08 Marks)
- b. What are the characteristics of management? (08 Marks)
- c. What is Gantt chart? Explain with its significance. (04 Marks)

OR

- 2 a. What is project organization? Explain with a typical project organization chart. (08 Marks)
- b. Differentiate between AOA and AON. (04 Marks)
- c. Draw the network from the following activity and find critical path and total project duration:

Activity	A	B	C	D	E	F	G
Predecessor	-	-	A	A	B	B	D, F
Duration days	10	9	9	8	7	11	5

(08 Marks)

### Module-2

- 3 a. What is the purpose of having material management system in construction? (04 Marks)
- b. Enumerate the factors to be considered for selection of construction equipments. (07 Marks)
- c. Explain different class of labour employed in construction project. (09 Marks)

OR

- 4 a. What are the factors influencing Inventory Management? (05 Marks)
- b. Estimate the hourly production of a Shovel with bucket capacity of  $0.96\text{m}^3$  and cycle time of 30 seconds. Shovel is used to excavate hard soil in an open area. Excavated earth is to be loaded in waiting dump truck, positioned at  $60^\circ$ . Equipment is utilized for 50 minutes in one hour. (07 Marks)
- c. List the factors affecting labour productivity. Briefly discuss any three factors. (08 Marks)

### Module-3

- 5 a. Define Quality and describe Quality Control and Quality Assurance in Construction. (08 Marks)
- b. Explain the Total Quality Management process in Construction. (08 Marks)
- c. Discuss on need of Engineering ethics. (04 Marks)

OR

- 6 a. What are the Safety procedures to be adopted during Excavation? (06 Marks)
- b. Explain Safety through Legislation, Safety campaign and Insurances. (08 Marks)
- c. Briefly write about :
  - i) Gifts and bricks
  - ii) Whistle blowing. (06 Marks)

**Module-4**

- 7 a. Explain the benefit of engineering economy in construction management. (08 Marks)  
 b. A firm invest in one of the two mutually exclusive alternative. Determine the best alternative based on annual equivalent method with the given details. (12 Marks)

 $i = 20\%$ 

Alternative	Investment (Rs)	Annual equal return (Rs)	Salvage value (Rs)
A	2,50,000	90,000	20,000
B	2,75,000	1,00,000	50,000

**OR**

- 8 a. Differentiate between Micro and Macro economics. (08 Marks)  
 b. Determine the effective interest rate for a nominal rate of 6 percent that is compounded  
 i) Daily ii) Monthly iii) Quarterly iv) Half yearly v) Annually. (12 Marks)

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**Module-5**

- 9 a. Write briefly about four functions of an Entrepreneur. (04 Marks)  
 b. Summarize the role of MSME in Economic development. (08 Marks)  
 c. Discuss in detail about stages in Entrepreneurial process. (08 Marks)

**OR**

- 10 a. Write short note on Exporting. (04 Marks)  
 b. Discuss the different types of Feasibility study. (08 Marks)  
 c. Explain the scope and role of following agencies : i) KIADB ii) KSFC. (08 Marks)

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