



## Fifth Semester B.E. Degree Examination, June/July 2025 Construction Management and Entrepreneurship

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. (10 Marks)
- b. What are the functions of management? (10 Marks)

OR

- 2 a. Explain in detail construction project formulation. (10 Marks)
- b. Define Grant Chart. (04 Marks)
- c. Explain with example concept of activity on arrow and activity on node. (06 Marks)

### Module-2

- 3 a. What are the factors affecting the labour output? (08 Marks)
- b. Estimate the hourly production in bulk volume (LCM) of a backhoe with bucket capacity of  $1.14\text{m}^3$  that is employed on excavation of a foundation, which is 3m deep in hard digging soil. The excavated earth is to be loaded in waiting dump trucks, placed at a swing angle of  $75^\circ$ . The expected performance efficiency is 81% with the following data.
  - i) Ideal output of loose soil in  $\text{M}^3$  (LCM) = 180 LCM.
  - ii) Equipment conversion factor operating at optimum depth = 0.80.
  - iii) Correction factors are : Soil factor per hard digging = 0.67 ;  
Load factor for loading into vehicle = 0.80 ; Swing factor = 1.05. (08 Marks)
- c. Discuss on Class of Labour. (04 Marks)

OR

- 4 a. Enumerate the classification of construction equipment with sub class. (10 Marks)
- b. What are the functions of Material Management? (05 Marks)
- c. A company has purchased an equipment whose first cost is Rs 1,50,000 with an estimated life of eight years. The estimated salvage value of the equipment at the end of life time is Rs 25,000. Determine the depreciation and the book value for period 4 using the Straight Line method of depreciation. (05 Marks)

### Module-3

- 5 a. What is ISO 9000? Explain the benefits of having ISO 9000 certification. (08 Marks)
- b. Describe the safety measures to be adopted during hot bituminous work to avoid accidents. (06 Marks)
- c. Define values, morals and ethics. List out six ethical principles applicable to construction industry. (06 Marks)

OR

- 6 a. What is Whistle Blowing? Explain in detail types of whistle blowing. (08 Marks)  
 b. Describe safety insurance. Briefly explain Contractor's All Risk (CAR) policy. (06 Marks)  
 c. Explain in detail costs of quality in construction. (06 Marks)

**Module-4**

- 7 a. Explain the principles of Engineering Economics. (10 Marks)  
 b. Explain problem solving and decision making in engineering economics. (10 Marks)

OR

- 8 a. Explain in brief with interest formula for different type of  
 (i) Single payment (ii) Equal payment (iii) Uniform gradient series. (10 Marks)  
 b. A company has to replace a present facility after 10 years at an outlay of Rs.500000=00. It plans to deposit an equal amount at the end of every year for the next 10 years at an interest rate of 15% compounded annually. Find the equivalent amount that must be deposited at the end of every year for the next 10 years. (10 Marks)

**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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