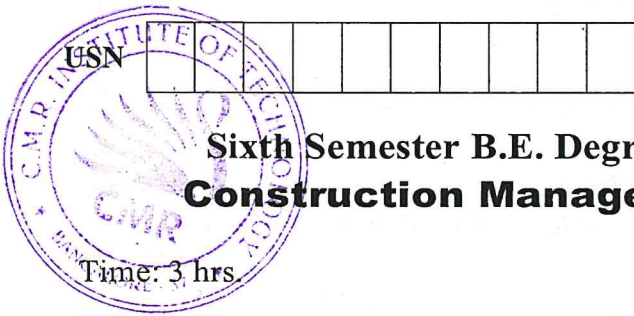


# CBCS SCHEME

15CV61



## Sixth Semester B.E. Degree Examination, July/August 2021 Construction Management and Entrepreneurship

Max. Marks: 80

*Note: Answer any FIVE full questions.*

- 1 a. Define construction management and explain characteristics of project management. (08 Marks)  
 b. What are the different management styles adopted for construction management? Explain any one. (08 Marks)
- 2 a. Draw a typical 'project life cycle curve' and indicate the importance of 'implementation phase'. (06 Marks)  
 b. Identify critical path of job execution for the activity network below. Activity name and duration in days are shown on each path. Mark the critical path prominently on the network diagram. [Refer Fig.Q2(b)]

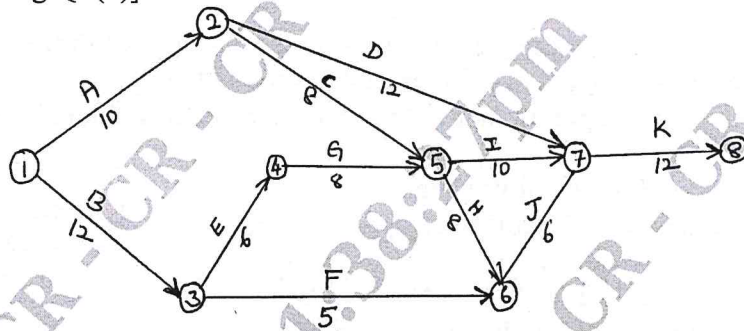


Fig.Q2(b)

(10 Marks)

- 3 a. List a minimum of six types of 'Resources' required for setting up of production processing plant. Explain any two of them in detail. (08 Marks)  
 b. What are the key factors affecting output of 'labour productivity' in a construction project? (04 Marks)  
 c. Write a detailed note on "Inventory Control" for effective material management. (04 Marks)
- 4 a. A military helipad construction involves 80000 cumt of excavation, in soft soil, at an altitude of 950 mts above MSL. Job needs to be completed in 200 working hours. Consider capacities of dozer and wheel loaders to be 220 M<sup>3</sup> and 120 M<sup>3</sup> per hour. The dump trucks of capacity 22 cumt are available for this job. Dumper cycle time is 35 mins, which is inclusive of 7 mins of loading time by 02 wheel loaders. Find out the number of Dozers, loaders and dumpers to be deployed to accomplish the task above on time. (12 Marks)  
 b. Suggest some important measures to be adopted at site to improve labour productivity. (04 Marks)
- 5 a. What are the various characteristics involved in quality process? (05 Marks)  
 b. Write detailed notes on:  
     (i) Safety measures to be practiced during excavation of deep foundation trenches.  
     (ii) Safety measures during laying of hot Bitumen mix at site (08 Marks)  
 c. Elaborate the professional responsibilities of an Engineering Executive in charge of site construction works. (03 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.

- 6 a. Write brief notes on:
- (i) Total Quality Management in construction project (05 Marks)
  - (ii) Cost of quality (03 Marks)
- b. Explain the safety norms for storage of construction materials. (04 Marks)
- c. Distinguish between 'value' and 'comfort' in shaping the trust worthiness of a professional manager. (04 Marks)
- 7 a. Mr. X is planning to build his own house. He plans to deposit Rs.40,000 every year for next 10 years in a bank. The bank gives 12% interest rate compounded annually. Find the monthly value of his deposit after 10 years. (10 Marks)
- b. Write brief notes on:
- (i) Net Present Value
  - (ii) Internal Rate of Return
  - (iii) Break-even Analysis (06 Marks)
- 8 a. What do you mean by Engineering Economics and how it is related to time value of investments? (06 Marks)
- b. What are the different methods of investment appraisal? Explain any two of them in detail. (10 Marks)
- 9 a. Define the term 'Entrepreneur' and explain the concepts of Entrepreneurship. (06 Marks)
- b. What are steps involved in preparing a 'Business Plan'? (05 Marks)
- c. Write a note on 'Export Options' considering the present Global Market Trends. (05 Marks)
- 10 Write brief notes on the following:
- a. Techno-commercial feasibility of a project
  - b. Single window clearance
  - c. Role of small scale industries in National Economy
  - d. KIADB and its role for industries development in Karnataka. (16 Marks)

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