

300807(20)

B. E. (Eighth Semester) Examination, April-May 2021

(New Scheme)

(AEI, Bio Tech., Chem., Civil, CSE, Elect., EEE, EI, ET&T, IT, Mech., Mining, Metallurgy, Mechatronics, Prod., Automobile, Agriculture, Plastics Branch)

CONSTRUCTION MANAGEMENT

Time Allowed : Three hours

Maximum Marks : 80

Minimum Pass Marks : 28

Note : Part (a) of each question is compulsory carrying 2 marks. Attempt any two parts from (b), (c) & (d) carrying 7 marks.

Unit-I

1. (a) Explain project life cycle with the help of block diagram. 2

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- (b) Discuss in brief about legal and regulatory requirements of the construction project. 7
- (c) Explain the duties of Project manager for any major construction project. 7
- (d) What will be the challenges if you are required to construct an hospital in a short interval of time? 7

Unit-II

- 2. (a) Define Project Management. 2
- (b) Discuss in detail the effects of motivation for project team. 7
- (c) What are the effects of project risk on an organization? 7
- (d) Write short notes on : 7
 - (i) Turnkey operation
 - (ii) Owner builder operation

Unit-III

- 3. (a) Define Value Engineering. 2

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- (b) For the design of an earthen dam, discuss geotechnical engineering investigations. 7
- (c) What do you understand by innovation and technological feasibility in the design and construction process? 7
- (d) Write short notes on : 7
 - (i) Construction planning
 - (ii) Computer Aided Engineering

Unit-IV

- 4. (a) Define Resource Bottlenecks. 2
- (b) What is the importance of Labour relation? How a manager can assess the labour characteristics? 7
- (c) Discuss various factors which can affect the selection of excavators. 7
- (d) Explain inventory control techniques of material management. 7

Unit-V

- 5. (a) Write the names of types of construction cost estimates. 2

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- (b) Discuss the effect of scale on construction cost. 7
- (c) Write short notes on : 7
 - (i) Concept of pre and post construction cost management.
 - (ii) Unit cost method of estimation.
- (d) Discuss in detail the costs associated with construction facilities. 7