

300807(20)

B. E. (Eighth Semester) Examination, 2020

APR-MAY

(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) What is the need of Construction Management?

- (b) Discuss the various stages in life cycle of construction project with flow chart.
- (c) What precaution should be taken by an owner in selecting professional services? Enumerate all professional service in construction management.
- (d) Write note on :
 - (i) Role of Project Manager
 - (ii) Legal and regulatory requirements

Unit-II

2. (a) What is a Turnkey Project?
- (b) Explain the function of project management. Describe in brief.
 - (c) Write notes on :
 - (i) Owner's builder operation
 - (ii) Interpersonal behaviour in project organization with example
 - (d) How do you suggest leadership approach and motivation for project team? Explain in detail.

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Unit-III

3. (a) What do you understand by design and construction process?
- (b) Why design and construction are considered as an integrated system? Explain in detail.
- (c) Write notes on :
- (i) Computer aided engineering
 - (ii) Value Engineering
- (d) What is the role of geotechnical engineering in construction process? Explain.

Unit-IV

4. (a) A power shovel with a dipper of one cubic yard capacity has a standard operating cycle time of 30 seconds. Find the daily standard production rate of showed.
- (b) Explain factor affecting job site productivity and also explain labour characteristics.
- (c) Explain material management.

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- (d) Explain how inventory control affects the different categories of cost.

Unit-V

5. (a) What is initial capital cost?
- (b) Explain the unit cost method of estimation.
- (c) Explain the computer aided cost estimation in construction and operation costs.
- (d) Write short on :
- (i) Historical cost data
 - (ii) Method for allocation of joint cost