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Roll No. :

300807(20)

**B. E. (Eighth Semester) Examination,
April-May 2019**

(New Scheme)

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

CONSTRUCTION MANAGEMENT

Time Allowed : Three hours

Maximum Marks : 80

Minimum Pass Marks : 28

*Note : Part (a) carries 2 marks. Part (b), (c) (d)
carries 7 marks each. Attempt any two parts
from (b), (c) & (d).*

Unit-I

1. (a) Define construction management.

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- (b) Describe project life cycle with flow chart. 7
- (c) Explain in detail the role of project manager. 7
- (d) Describe in detail role of contractor in construction economy of project. 7

Unit-II

- 2. (a) Define Project. 2
- (b) Write short notes on turnkey operation. 7
- (c) Describe inter personal behaviour in project organization. 7
- (d) What are the main causes of a project failures? 7

Unit-III

- 3. (a) Define Value Engineering. 2
- (b) What do you understand by computer aided engineering. 7
- (c) Explain pre-project planning. 7
- (d) What is the importance of innovation in economic feasibility.

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Unit-IV

4. (a) Define labour productivity. 2
- (b) Discuss the complexity of material procurement and delivery issues in large construction project. 7
- (c) Write short notes on choice of equipment. 7
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- (d) A power shover with a dipper of one cubic yard capacity has a standard production rate of 960 cubic yards for 8 hrs day. Determine the job site productivity and the actual cycle time of this shower under the work conditions at the site that affects its productivity as shown below :

Work conditions at site	Factors
(i) Bulk composition	0.954
(ii) Soil properties and water content	0.983
(iii) Equipment ideal time for worker breaks	0.8
(iv) Management efficiency	0.7

Unit-V

5. (a) What are the cost associated to construction facility. 2

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- (b) Explain detailed estimate, bid estimate, and control estimate. 7
- (c) Explain historical cost data. 7
- (d) Explain operating cost. 7

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