

B

04000CE404052203

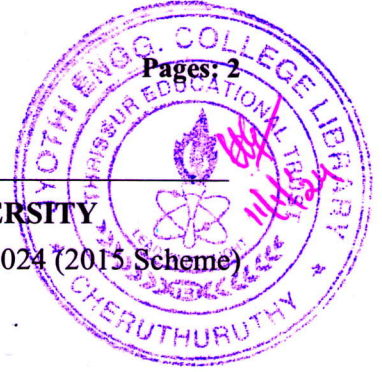
Pages: 2

Reg No.: \_\_\_\_\_

Name: \_\_\_\_\_

APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY

B.Tech Degree S8 (S, FE) / S6 (PT) (S, FE) Examination January 2024 (2015 Scheme)



Course Code: CE404

Course Name: CIVIL ENGINEERING PROJECT MANAGEMENT

Max. Marks: 100

Duration: 3 Hours

**PART A**

*Answer any two full questions, each carries 15 marks.*

Marks

- 1 Draw the project network diagram for the following details and identify the critical path. Also, calculate (15)
- (i) total project duration
  - (ii) early start, early finish, late start and late finish times of activities
  - (iii) total float and free floats of activities

Activity	1-2	1-3	2-4	3-5	3-6	4-7	5-7	6-8	7-8
Duration (in weeks)	3	5	4	3	2	2	5	4	3

- 2 a) Explain critical path and state its significance in project planning. (5)
- b) Illustrate the concept of network crashing based on time-cost trade off. Describe the procedure to follow for crashing a project network. (10)
- 3 a) Draw a detailed job layout for a multi storied building and describe its significance. (8)
- b) What is codification approach in project planning? Explain how proper resource codes can help in effective construction planning. (7)

**PART B**

*Answer any two full questions, each carries 15 marks.*

- 4 a) List out different methods for settlement of disputes. Prepare a comparison table between these methods. (8)
- b) List out any 5 unethical practices in construction industry and their remedies. (7)
- 5 a) Explain the duties of an arbitrator. (8)
- b) Explain different types of budget significant in construction industry. (7)
- 6 a) Explain various functions of an efficient project management information system. (8)
- b) Explain the difference between project cost and project budget. (7)

**PART C**

*Answer any two full questions, each carries 20 marks.*

- 7 a) What is inventory control? Explain ABC analysis for inventory control. (10)  
b) What are the possible causes for accidents at a construction site? Suggest preventive measures to be adopted for the same. (10)
- 8 a) Explain economic order of quantity (EOQ) and how various parameters affect EOQ. (10)  
b) List the various items that are included in a contract document. Explain in detail any four items. (10)
- 9 Write short notes on  
a) Prequalification of contractor (5)  
b) Tender notice (5)  
c) Earnest money deposit (5)  
d) Measurement book (5)

\*\*\*\*