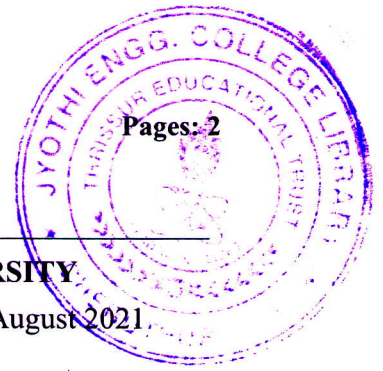


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Reg No.: _____

Name: _____

APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY
Eighth Semester B.Tech Degree Supplementary Examination August 2021

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 a) Define event and activity. Explain types of events. (5)
b) What are the limitations of Bar charts? (5)
c) The following table lists the activities, durations and their sequence of operation for a construction project. Prepare the network and compute in a table their early start, early finish, late start and late finish times. Determine the critical path. (5)

Activity	Duration in days	Activity	Duration ins days
1-2	10	4-7	0
1-3	12	5-6	6
1-4	7	5-7	5
2-7	8	5-8	8
3-4	5	6-8	7
4-5	9	7-8	7

- 2 a) Which are the factors affecting Job Layout? Explain. (5)
b) Briefly explain resource smoothing and resource levelling. (5)
c) What is slack? Explain different types of slack? (5)
3 a) Explain the purpose of codification and aspects/data needed for codification. (7)
b) Explain pumping and dewatering equipments used in construction. (8)

PART B

Answer any two full questions, each carries 15 marks.

- 4 a) Explain the different categories of disputes. (6)
b) What behaviours can be viewed as being unethical in construction? (9)
5 a) Explain importance of project budget. (5)
b) Briefly define computerised information system. (5)
c) Briefly explain direct costs. (5)

- 6 a) Explain the powers of arbitrator. (5)
b) Explain functions and components of Project management information system. (10)

PART C

Answer any two full questions, each carries 20 marks.

- 7 a) Explain (10)
i) Safety measures in demolishing of buildings
ii) Safety measures for storage and handling of building materials
b) Explain inventory cost and factors affecting inventory cost. (10)
- 8 a) Explain primary objectives of the accident prevention programme. (5)
b) Explain the types of contract. (8)
c) Write short note on (7)
i) Tender form
ii) Tender document
iii) Tender notice
- 9 a) Briefly explain application of ABC analysis. (5)
b) Write a note on Earnest Money Deposit (EMD) and Security Deposit. (8)
c) Explain quality assurance techniques (7)
