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Reg No.: _____

Name: _____

APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY

Eighth Semester B.Tech Degree Supplementary Examination October 2022 (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 a) What is DPR for a construction project? Explain the essential items to be included in DPR. (8)
- b) Draw a detailed job layout for a multi storied building and describe its significance. (7)
- 2 a) 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 float of activities

Activity	1-2	1-3	1-4	2-3	2-6	3-5	3-6	4-5	5-6
Duration (in days)	5	4	3	4	4	3	4	6	4

- 3 a) Differentiate between resource smoothing and resource levelling. (8)
- b) State the significance of codification in projects. Write five points each about resource codes and cost accounting codes. (7)

PART B

Answer any two full questions, each carries 15 marks.

- 4 a) Explain different methods of construction dispute settlement. (8)
- b) Explain in detail the unit rate method for resource costing. (7)
- 5 a) What are the ethical practices to be followed by an engineer working in the construction industry? (8)
- b) Explain direct and indirect costs of a construction project. (7)
- 6 a) Explain the application of PMIS throughout the life cycle of a project. (8)
- b) Write any 7 advantages in computerising construction management. (7)

PART C

Answer any two full questions, each carries 20 marks.

- 7 a) Explain economic order of quantity (EOQ) and how various parameters affect EOQ. (10)
- b) What are the safety measures to be adopted for the construction of a multi-storied RCC building? (10)
- 8 a) Explain the factors which influence the quality of a construction project. Describe how proper quality control can be maintained in a construction project. (10)
- b) Describe any 5 types of contract significant to construction industry. (10)
- 9 Write short notes on
- a) Categorisation of inventories using ABC analysis (5)
- b) Safety measure to be adopted while demolition of a building (5)
- c) Cost plus contracts (5)
- d) Security deposit (5)
