Reg No.:_____   Name:_____

APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY
EIGHTH SEMESTER B.TECH DEGREE EXAMINATION(S), OCTOBER 2019
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 are the advantages and limitations of Bar Charts? Explain. (5)

   b) Following are the durations of activities of a project. (10)

Activity	A -	B	C	D	E	F	G
Predecessors	-	-	A	B	B	C, D	E
Duration (weeks)	11	7	9	13	8	8	9

Draw the network and find the critical path and minimum Project duration. Also calculate the floats of activities.

2 a) Explain various types of floats. (8)

   b) What is the need of codification in a construction project? Explain cost and finance accounting codes. (7)

3 a) Write short notes on construction schedule and equipment schedule. (5)

   b) Crash the given network using the details given in table and find the optimum cost and least project duration. (10)

ACTIVITY	PREDECESSOR	DURATION (DAYS)		COST (RS)	
		NORMAL	CARSH	NORMAL	CARSH
A	-	6	4	5000	6800
B	A	10	7	4000	7750
C	A	12	8	5000	8000
D	B	8	4 ·	7000	8400
E	C	6	3	5000	6950
F	D, E	4	2	7000	7500

PART B
Answer any two full questions, each carries 15 marks.

4 a) Discuss the various causes of disputes that can occur during the execution of a project. (7)

   b) Explain different modes of settlement of disputes. (8)

5 a) Explain the method of determining the cost of resources in a construction project. (7)

b) Discuss the common ethical problems encountered in civil engineering works.   (8)

6 a) Write a note on managing a Project Management Information System (PMIS),   (5)
   explaining the processes involved and the tools and techniques employed.

   b) What are the characteristics desired for the information that contributes to PMIS?   (5)

   c) What are the advantages of an efficient PMIS?   (5)

PART C
Answer any two full questions, each carries 20 marks.

7 a) What is a tender? Indicate the information provided in the tender notice with example.   (10)

   b) What constitute tender documents and what general information should be furnished   (10)
   in such documents?

8 a) What is inventory control and what are its objectives?   (10)

   b) Explain ABC analysis is detail.   (10)

9 a) State briefly the methods to achieve quality control on concrete.   (10)

   b) What are the methods to ensure safety in road construction?   (10)

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