Reg. No.			
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**Question Paper Code** 

11494

# B.E. / B.Tech. - DEGREE EXAMINATIONS, NOV/DEC 2022

Seventh Semester

### Civil Engineering

### **CE8012 - CONSTRUCTION PLANNING AND SCHEDULING**

(Regulations 2017)

**Duration: 3 Hours** 

Max. Marks: 100

#### PART - A $(10 \times 2 = 20 \text{ Marks})$

Answer ALL Questions

		Marks, K-Level, CO
1.	Define work breakdown structure.	2,K1,CO1
2.	How will you estimate the activity duration?	2,K1,CO1
3.	Write down the significance of critical path.	2,K2,CO2
4.	Identify the various resources used for construction projects.	2,K3,CO2
5.	Define CDBMS.	2,K1,CO6
6.	List out the components of cash flow status report.	2,K1,CO3
7.	What are the important items to be inspected during the construction?	2,K1,CO4
8.	Classify the statistical sampling methods for quality control.	2,K2,CO4
9.	Outline the advantages and disadvantages of centralized database	2,K2,CO5
10.	management system.  Compare the relational model of data bases and conceptual models of databases.	2,K2,CO5

## PART - B $(5 \times 13 = 65 \text{ Marks})$

Answer ALL Questions

11. a	a)	(i)	Explain	in	detail	about	the	basic	concept	involved	in	the	8,K2,CO1
		development of construction plan.											
			<b>D</b>										

(ii) Draw a typical WBS tree diagram for residence building 5,K2,CO1 construction.

OR

b)	(i) How do you specify precedence relationship in activity on node and	7,K2,CO1
	activity on branch network?	
	(ii) Explain briefly the Choice of technology in construction.	6,K2,CO1

12. a) (i) The duration of activities of a project is as follows. Draw the PERT 9, K3,CO2 network diagram. Identify various paths. Identify the critical path. Tabulate the computations. Evaluate the project time.

		Activity	1-2	1-3	2-4	2-5	4-7	5-7	7-8	3-6	6-8	
	Duration in days 5 10 1 6 12 3 4 7 6											
		(ii) Compare Precedence network analysis (PERT) and critical path method (CPM).										h 4, K3,CO2
	b)	(i) Discuss about direct cost and indirect cost.										
												n 9,K2,CO2
		Activity A B C D E F G										
		Predecessor - A A A D C,E D,F										
		Duration (Day	s)	3	6	16 10	) 8	5	3			
13.	a)											7, K2,CO4 6, K2,CO4
	b)											
14.	<ul> <li>4. a) (i) Define accidents. Explain the causes for accidents at constructions sites and the various costs associated with accidents.</li> <li>(ii) List the safety precautions for the high rise RCC cast-in-sites.</li> </ul>											
		construction.	satety	prec	aution	s for	the hi	gh ris	e RC	C cast	-in-sitı	1 6, K2,CO5
	<b>b</b> )	OR OR										
	b)	<ul> <li>(i) Describe the statistical quality control with sampling by attributes.</li> <li>(ii) Define and differentiate between Quality Audit and Quality Check with example.</li> </ul>										
15.	在这些是"在大学生的特别,是现代学											
		(ii) Discuss in detail about the computerized organization and use of 7, K3,C06 information in a project.										
	b)	followed in construction industry.										
		(ii) Explain the main functions of Project No.										6, K2,CO6
PART - C (1 × 15 = 15 Marks)												
16.	a)	Develop brie				OR						15,K3,CO3
	b)	Explain in de	etail at	out re	esourc	e orien	ted sch	edulin	g.			15,K2,CO3
K1 – 1	Remen	nber; K2 – Under	stand;	K3 – Aj	oply; K	4 – Anai	yze; K5	– Evalu	ate; K6	– Crea	te .	11494