JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT TEST -3 EXAMINATION- 2025

B.Tech-V Semester (CE)

COURSE CODE (CREDITS): 18B1WCE531 (3)

MAX. MARKS: 35

COURSE NAME: CONSTRUCTION TECHNOLOGY AND MANAGEMENT

COURSE INSTRUCTORS: Dr. KAUSHAL KUMAR

MAX. TIME: 2 Hours

Note: (a) All questions are compulsory.

(b) The candidate is allowed to make Suitable numeric assumptions wherever required for solving problems

(c) Scientific Calculator is allowed.

Q.No			Questi	on		674 (J. h.	CO	Marks
Q1	A small CPM network has the following data given in the table							
	below. Est							
	minimum (
	cost is Rs							
	Graph pap							
	Dyration, days Cost							
:	Activity	Following	Preceding	Normal	Minimum	slope in Rs/day	3	7
	Α	D&E		8	6	2000	·	
	В	F 📉		12	8	1500	:	
	С	f y	•	20	19	2500		
	D	(4)	A	10	9	3000		
	E (F	A	5	3	1000		
	A R	<i>)</i> -	B & E	10	9	2200		
Q2	Differentian requires 36 efficiency the minimum	4, 5	3+4					
Q3	Sketch a Batching Plant used in RMC operations. List the advantages of RMC over site mixing.							7
Q4	Which soil types are most suitable for Vibratory Roller and why? Calculate the Ownership Cost per year using straight-line depreciation:							7

	Purchase c									
	Salvage va									
	Useful life									
	Interest/Ta									
Q5	A construc									
	network-based (CPM), and the duration and resource (labour)									
	requiremen	, rela	£							
	Activity	Duration (Days)	Predecessor	edecessor Labour Required (Workers/day)						
	A	4		5	1	47				
	В	6	A	4	1. A.					
	C	7	A	6)					
	D	5	В	3	4	7				
	E	4	В	5 A		·				
	F	6	C	Con The Action						
	G	5								
	The availal									
	site constra									
	Identify wl									
	Levelling									
	and draw t									