Reg No.:					Nar	ne:					
		-	-		LAM TECH B.TECH DEC					2019	
Course Code: CE404											
		Course I	Name: (CIVIL	L ENGINEER	RING I	PROJEC	CT MANA	AGEM	ENT	
Μ	ax. N	1arks: 100								Duration:	3 Hours
			4			RT A					Marks
				•	two full quest	,			rks.		
1	a)	Explain the steps involved in realisation of a Construction project.								(8)	
	b) Write short notes on Resource codes.								(7)		
2	a)) What are the advantages of networks over bar charts?							(5)		
b) Determine the expected completion time, variance and critical pathof the project give								roject given	(10)		
		below.	-		-			_	_		
		Activity	А	В	С	D	Е	F	G	Н	
		Predecessors	-	-	A	В	Α	C,D	C,D,I	E F	
		T ₀ days	2	2	3	4	3	4	3	4	
		T _L days	5	6	4	6	5	6	5	8	
		Tp days	7	9	9	10	12	13	6	13	
3	a) Following table shows cost and duration of each activity. The ind								ne indi	rect cost is	(15)
Rs.3150/week. Determine the optimum duration of project and minimum cost.											
			Predece	essor	Normal	N	ormal	Cras		Crash Cost	

Activity	Predecessor	Normal Duration (weeks)	Normal Cost (Rs)	Crash Duration (weeks)	Crash Cost (Rs)			
A	-	7	8,000	4	15500			
В	-	9	5,000	6	9500			
С	А	5	7,000	2	10,000			
D	А	6	9,000	4	16,000			
Е	B, C	6	6,000	4	12,000			
PART B								

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

4 a) During a dispute, what are the claims that a contractor can put forward against a (7) client?

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	b)	Discuss the advantages and disadvantages of arbitration over other methods of	(8)			
		settlement of disputes.				
5	a)	What are the various elements that constitute the direct cost of an item/activity in a	(7)			
		construction project? How does the direct cost behave as the output volume increases?				
	b)	Explain the problems encountered in Project Management Information System.	(8)			
6	a)	List some of the ethical issues commonly found in civil engineering works.				
	b)	Elaborate on the role played by professional bodies in ensuring professional ethics.	(5)			
	c)	Describe the components of Project Management Information System.	(5)			
		PART C				
7	a)	Answer any two full questions, each carries 20 marks. List out the functions of materials management.	(5)			
	b)	Explain economic order of quantity.	(5)			
	c)	Explain the steps involved in classifying items using ABC analysis	(10)			
8	a)	Outline any two important types of contracts.	(10)			
	b)	Differentiate between earnest money deposit and security deposit.	(5)			
9	c)	Discuss the use of a measurement book.				
	a)	Explain total quality management.	(10)			
	b)	Discuss the measures to ensure safety in construction.	(10)			
