Code: P18CEE08

HALL TICKET NUMBER

PACE INSTITUTE OF TECHNOLOGY & SCIENCES::ONGOLE
(AUTONOMOUS)
IV B.TECH I SEMESTER END REGULAR EXAMINATIONS, NOV-2022
CONSTRUCTION TECHNOLOGY AND MANAGEMENT
(CE Branch)

Time: 3 hours   Max. Marks: 60

Note: Question Paper consists of Two parts (Part-A and Part-B)

PART-A

Answer **all** the questions in Part-A (**5X2=10M**)

Q.No.		Questions	Marks	CO	KL
1.	a)	Compare CPM and PERT.	[2M]	1	2
	b)	List out the sources of cash inflow and cash outflow.	[2M]	2	1
	c)	Write the uses of rear dump trucks.	[2M]	3	2
	d)	Differentiate the application of tractors and bulldozers.	[2M]	4	4
	e)	Mention the objectives safety engineering.	[2M]	5	1

PART-B

Answer One Question from each UNIT (**5X10=50M**)

Q.No.		Questions	Marks	CO	KL
		UNIT-I			
2.		The details of a network are given below, where the durations are in days. Find the critical path and project completion time.	[10M]	1	3

Activity	A	B	C	D	E	F	G	H	I
Predecessor	-	-	A	A	B,C	B,C	D,E	D,E	F,G
Duration (Days)	4	3	8	7	9	12	2	5	6

Q.No.		Questions	Marks	CO	KL
		OR			
3.	a)	Discuss the various factors affecting scheduling.	[5M]	1	6
	b)	Write down the significance of critical path.	[5M]	1	2
		UNIT-II			
4.		List out the various categories of cost involved in a project. Explain it in detail.	[10M]	2	1
		OR			
5.		What is meant by crashing for optimum resources? Explain with suitable example.	[10M]	2	1
		UNIT-III			
6.		Describe in detail about the compaction equipments.	[10M]	3	2
		OR			
7.		Explain in detail about the trucks and handling equipments.	[10M]	3	2
		UNIT-IV			
8.		Discuss the factors for selection of crushing equipment.	[10M]	4	6
		OR			
9.		Explain in detail about the consolidating and finishing for concreting.	[10M]	4	2
		UNIT-V			

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10.		Describe the importance of building information modelling in civil engineering.	[10M]	5	2
OR					
11.		Discuss in detail about the earthwork and piling methods in construction.	[10M]	5	6

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