_	e: 3 Hours] [Total Marks: 8	0]
N.B:	1. Question No:1 is compulsory	10
	2. Attempt any three questions from the remaining five questions.3. Figures to the right indicates full marks	ST
	5. Figures to the right indicates run marks	
Q1		(20)
a	Classify the following equipments as Standard & Special Equipment:	A
	Conventional Concrete Mixer, Tunnel boring Machine, Platform Vibrator, Air	\$
	Compressor, Tower crane, Concrete placing boom, Scraper, Wheel trencher.	,
b	Discuss the advantages offered by Equipments over labourers.	
c	Draw a neat sketch/flowchart showing the components of an Atomic power plant.	3
d	List the equipments required for Concrete dam construction.	7
Q2		(20)
a 🔬	With the help of a sketch, explain the working of Vertical shaft sinking machine	10
b	Enlist the various dewatering technique for trenches and explain the working of	10
EV	well point system.	
Q3		(20)
a	Draw neat labelled sketch for: i) Jaw Crusher ii) Tower Crane	10
b	How does LIDAR technique work? State its applications in Civil Engg.	10
Q4		(20)
a	Describe the working of Tunnel lining trolley.	10
b	Enlist the advantages offered by Slip formwork.	05
Sc	What care should be taken during transportation and storing of blasting materials?	05
Q5		
a	Explain balanced cantilever method of bridge construction.	08
b	Discuss any two methods of controlled demolition of buildings.	07
c	Describe the various types of construction involved in setting up a fuel station.	05
Q6		(20)
a o	Discuss the role of drones and GPS for monitoring the construction progress of	10
A	infrastructure projects.	
b	Describe the EM system of Maglev.	05
c	State the advantages of prefabricated housing system.	05
Q		

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