Paper / Subject Code: 89267 / Construcation Equipment & Techniques (DLOC)

T. E Civil - VI c-50

Time: 3 hours

N.B.

1. Question No. 1 is compulsory

2. Attempt any 3 Questions from the remaining.

3. All questions carry equal marks.

- 4. Figures on the right indicate the maximum marks for those questions.
- 5. Assume suitable data if required and highlight the same.

0.1		Attempt Any Four	20
Q. 1		Write short a note on Earthmoving equipment	
	a	Write a note on the tunnel boring machine.	4
	b	Distinguish between tunnelling of roads and metro	100
	c	Distinguish between tunnelling of roads and metro	1
	d	Explain the procedure of installation and operation of the overhead	
		transmission tower.	•
	e	Draw the layout of a hydropower station. Enlist the equipment	
		required for the construction of a hydropower plant.	
	f	What is PFHS? What are the advantages of PFHS?	19
Q. 2	a	What is formwork? Write a note on the MIVAN formwork system	10
	2	along with its advantages & disadvantages.	"
	b	- Con	10
		Explain any one technique.	
Q. 3	a	What is tunnelling? What are the popular methods of tunnelling in	10
	,	soft rock? Describe any two methods with a neat sketch.	S
	b		10
Q. 4	9	= 10 of	10
1/4/2	3	offer for high-rise construction	
	1	Write a note on the laying of pipes using the pipeline insertion	05
		system.	
Q.5	13	Which method is used for bridge or flyover construction? Explain in	10
	374	detail the balanced cantilever method.	
	3	b What are the different techniques/methods used for the construction	10
		of emergency houses for disaster management?	
Q. 6		a How effectively do drones and GPS are used for monitoring the	10
		projects/working of airports and seaports?	
		b Write a detailed note on measures taken while working in a	10
		restricted space.	10