Q.P.Code No.: **5235**

[Total Marks: 80

			1
		N.B.: (1) Answer any four questions.	1
		(2) Neat labeled sketches and legible handwriting will be appreciated	
Q.1			(20)
V.1	a	Define tunnel. Explain its various components along with a neat sketch.	(20)
	b	Tunneling in soft rocks is difficult. Justify.	
	c	Enlist the precautions to be taken in mass concreting.	
	d	Enlist different types of piles and draw illustrative sketches.	
	е	Explain the effect of groundwater movement on the stability of any structure.	
0.2			(0.0)
Q.2	a	Explain the stepwise procedure of underwater tunnel construction.	(20)
		Write a detailed note on Diaphragm wall construction.	
		With a addition fold on Diaphraghi wall constitution.	
Q.3		T Tomas Toma	(20)
		Explain different grouting methods alongwith their suitability.	08
		Write a note on vaccum dewatering.	07
	С	F F	05
		pumped.	
Q.4			(20)
	a	Write a note on Well point system as a method of dewatering.	(20)
		What are the different methods of pile driving ?Describe the working of a diesel	
		hammer with a neat sketch.	
0.5			
Q.5	а	What are the different types of cofferdams ?Explain the procedure for installation of	(20)
	и	cofferdams when a huge dam is to be constructed.	
	b	Describe the nature of shuttering in the construction of a bridge by:	
		i. Incremental launching method.	
		ii. Balanced cantilever method.	
06		White short sales (Aur Sun)	
Q.6	а	Write short actes on (Any four) Airlocks and its types.	(20)
	b		
		Micro piling.	
	d		
	•	Chirpon and its trace	

(3 Hours)