ME (civil) | SemII (CBCS-CLOSTE Based | May 2017 ACT Q.P. Code:13973

	3 Hours 80 Marks	
1.	Solve Any Four questions.	
2.	- 12 CONTO C	
3.		
Q1		20
-	a Explain Pilot tunnel, shaft, Invert level, Heading, Drift with suitable sketch.	04
	b Explain : Diaphragm wall construction.	04
	c List out the materials used for facading and mention the advantages &	2 04
	disadvantages of facading in general.	
	d Explain the applications of Geotextiles & Geogrids in Construction	04
	practices.	591005
	e Draw a neat sketch showing various components of a thermal powe	
	plant.List any 3 major thermal power plants in India with their generation	1
	capacities.	
12.02		
Q2	TOTAL CONTRACTOR OF THE CONTRA	20
	a Draw a neat sketch showing various parts of a TBM. Explain it working. Comment about the typical dimensions, operation cost, Owning cost, Rate of working and past examples in India where TBM is being used.	g
	b Write a detailed note (with diagram) on New Austrian Tunneling Method	
	covering the steps involved, Cost of working, Equipment	S
	required, Applications and practical examples where it is being used.	
Q3		20
	a Explain Slip-form, jump-form and modular shuttering alongwit sketches, applications, practical examples and working process.	
	b Write notes on 1)FRP Concrete.2) Self compacting Concrete	10
Q4		20
	a Write a note on Construction Systems for high rise structures.	10
	b Write a note on Prefabricated construction techniques covering planning for precasting, fabrication, transport, site erection & safety measures durin erection.	
Q5		20
	a Explain Balanced Cantilever method of Bridge construction.	07
	b Explain the different types of constructions to be done for undergroun	d 06
	railway.	
- 5.3	c Explain the working mechanism of Maglev trains.	07
3 3		
Q6		20
1	a With a neat sketch/flowchart, Explain the working of (Any One)	07
	Hydro power station. OR Solar power Plant	Maria
1	b What are the essential components of a port?	07
-	c Explain the procedure of erection of a electricity transmission tower.	06