MF-Sem-II- Choice based-ACT CCBCS)

3 Hours

1. Solve Any Four questions.

80 Marks

06

Q.P. Code :13975

		figures to the right indicate full marks.	
	3. A	Attempt sub questions in order	6
Q 1	a	Explain Cut holes,Rim holes,Reliever holes,Relief holes and various patterns of drilling holes for blasting in tunnel.	20 04
	b c	Explain: Secant pile construction. Draw a neat sketch showing various components of a RMC plant. Approximately how much space and cost is required if you have to set up a RMC plant?	04
	d e	Explain stone column and sand drain construction along with their suitability. Draw a neat sketch showing various components of an atomic power plant. List any 3 major atomic power plants in India with their generation capacities.	04 04
Q2	a	Draw a neat sketch showing various parts of a TBM.Explain its working.Comment about the typical dimensions, operation cost,Owning	20
	b	cost,Rate of working and past examples in India where TBM is being used. Write a detailed note (with diagram) on New Austrian Tunneling Method covering the steps involved,Cost of working,Equipments required,Applications and practical examples where it is being used.	10
Q3			20
	a b	Explain Slip-form, jump-form and modular shuttering alongwith sketches, applications, practical examples and working process. Write notes on 1)FRP Concrete.2) High performance Concrete	10
Q4	U	Write notes on 1)1 Kr Concicte.2) Tright performance Concrete	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 during erection.	10
Q5			20
	a	Explain Incremental launching method of Bridge construction.	07 06
	b	Explain the different types of constructions to be done for underground railway.	00
	c	Explain the working mechanism of Maglev trains.	07
Q6	a	With a neat sketch/flowchart, Explain the working of (Any One)	20 07
	la.	Hydro power station. OR Thermal power Plant What are the essential components of a port?	07
	D	what are the essential components of a port.	U

What are the essential components of a port?

Explain the procedure of erection of a solar power station