BE(CIVIL) | Sem-VII | R-191 C' Scheme | ACT

06.06.2025

(3 HOURS)

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N.B	[Total Marks:	80]
1.	Question No:1 is compulsory	
2.	Attempt any three questions from the remaining five	1
3.	Figures to the right indicates full marks	The state of the s
Q 1	CENTR	(20)
a	Briefly explain the procedure of erecting sand drains.	(_0)
b	Discuss balanced cantilever method of Bridge construction.	
C	Explain the Ways/means to transport, handle light weight structures.	
d	State the procedure of dewatering while laying foundation of a bridge pier.	
Q 2		(20)
a	Discuss various methods to prevent ingress of water in structures continuously	10
	submerged in water.	
b	Mention the various advanced construction technologies used with respect to	10
	the under construction Colaba-Seepz Underground metro in Mumbai.	
Q 3		(20)
a	Write down the method and sequence followed in the construction of:	12
ŷ.	i) Concrete Dome. ii) Lattice tower used in transmission line.	
Ь	State the advantages & disadvantages of prefab construction.	0.8
Q 4		(20)
a	State various methods of strengthening columns and explain jacketing in detail.	12
b	Discuss the special care taken while constructing buildings along the coastline.	08
Q5		
a	Explain: i) Solar Paints. ii) Need of dredging.	10
b	Explain the stepwise procedure of underwater construction of diaphragm walls.	10
Q 6	Write short notes on:	(20)
a .	Process of post tensioning of slab.	`'
b	Energy dissipation techniques to enhance earthquake resistance.	
c	Vaccum dewatering of concrete flooring.	

@P code: 85550

prog. code: 1 T 0 0 6 3 7

Applications of geotextiles in ground improvement.