Roll No.	Total No. of Pages : 0
T-+- N f O+: 00	

Total No. of Questions: 08

(b) Post grout test

(c) Polymers

PHD (CIVIL) ADVANCED CONSTRUCTION TECHNOLOGY

	, (BV) ((102B) GGIVGTIVGGTTGV TEGTIVGEGGT	
Tim	ne : 3 Hrs. Max. Mar	ks : 100
NST 1. 2. 3.	TRUCTIONS TO CANDIDATES: Attempt any FIVE questions out of EIGHT questions. Each question carry TWENTY marks. Assume suitable data, not given.	
1.	(a) Explain how sudden draw down of reservoir affects the designment.	gn of earther (8)
	(b) Discuss briefly the criteria for safe design of an earthen dam.	(12)
2.	(a) Define seepage force, piping and roofing as understood in the study of searth dam resting on a relatively porous media.	stability of ar (10)
	(b) Give details about 'Monitoring of post construction behavior' with Earthen Dams.	reference of (10)
3.	(a) List the typical damage that a structure resting on an expensive soil is likely to	suffer.
	(b) Discuss the design steps for chimney design. Also discuss codal provisions.	(10)
4.	(a) Explain the open sumps and vacuum well dewatering systems.	(10)
	(b) Discuss general planning considerations for high rise buildings.	(10)
5.	(a) Discuss the types of cladding used and temperature induced movement construction.	ts in high rise (10)
	(b) Discuss structural aspects of high rise buildings.	(10)
	6. (a) Write a note on 'Modular Coordination and Tolerances' with Prefabricated construction.	reference to (8)
	(b) Discuss any two types of excavating and earth moving equipment i Sketches.	n detail. Give (12)
7.	(a) Differentiate between Pretensioning and Post tensioning. Explain any of Post-tensioning.	ne method o (10)
	(b) What are functions of Geosynthetics? Discuss in detail.	(10)
8. V	Write short note on (any two) :	
	(a) Sealants and Adhesives	(10)

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(10)

(10)