3,2(2)

GANPAT UNIVERSITY

B.Tech. VIth Semester Civil, Regular Examination – MAY/JUNE: 2012

C-606:ADVANCED CONSTRUCTION

M	ax.Tir	me: 3 Hours Max. Marks:	70	
Exa	m. No	. of the candidate: Supervisor's dated initial:		(B)
Inst	ructio	ns: - (1) Answer to the two sections must be written in separate answer books.		
		(2) Figures to the right indicate full marks.		
		(3) Assume suitable data if required.		Q.S Atte
		Attempt say from an integral $Section - I$ and the same short a single $Section - I$ and $Section - I$		
Q.1	(A)	Draw neat sketch of common shape of pre-cast RCC sheet pile and	6	(B)
		common forms of steel sheet piles.	a	
	(B)	What are the points considered while selecting the pile?	4	
	(C)	Discuss pile cap and pile shoe with figure.	5	
Q.2	(A)	Define the cofferdam. Write down use of cofferdam. What are the points to be kept in mind while constructing a cofferdam	6	(6)
	(B)	Explain economic height of cofferdam	4	
	(C)	Write short notes on (a) box caisson (b) pneumatic caisson	5	-V
		OR (owT vnA); no ston none		
Q.2	(A)	Why formwork is necessary? What are the requirements of good formwork?		
	(70)		1	
	(B)	Explain with neat sketches. The formwork for RCC column.	97	
	(C)	Describe the timber formwork. What are the facts to be considered while using timber formwork?	5	
Q.3	Defi	ne the following: (Any one)	5	
	(A)	(a) Epicenter (b) magnitude of earthquake		
	(B)	(a) Continuous belt (b) pulleys		

Section – II

			37 15 15 16	
Q.4	Atte	mpt the following:(Any Three)	15	
	(A)	Briefly explain types of earth quake and waves		
	(B)	Describe well point system with neat sketch. What are its advantages and disadvantages?	o solif se	
	(C)	Describe with various stages of vibrofloatation.	Retions	
	(D)	Explain importance of ductility in seismic design		
Q.5	Atte	mpt the following:(Any Two)	10	
	(A)	Write a short note on (a) cement grouting (b) chemical grouting		
	(B)	Explain use of an excavator and discuss different types.		
	(C)	Define (a) good structural configuration (b) ductility		
Q.6	Expl	ain the following: (Any Two)	10	
	(A)	Explain with neat sketch. the Structure of "EARTH"		
	(B)	What is meant by prestressed concrete? What are the advantages and disadvantages of it?		
	(C)	Discuss about the important point to be considered while construction of Tall and Special structure.		
		vitte short notes on (a) box caisson (b) NO while short notes on all and		
Q.6	Write	e a short note on (Any Two)	10	
	(A)	Group of Pile book South of the requirement of the property What are the requirement of the property of the pr		
	(B)	Earth quake Resistance construction		
	(C)	Pre-tensioning method and Post tensioning method	(B) E	
		"END OF PAPER"		

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