DIPLOMA IN CIVIL ENGINEERING DCLEVI/ACCLEVI

Term-End Examination

December, 2011

BCE-024: CONSTRUCTION TECHNOLOGY-I

Time	: 2 hc	ours		Maximum Marks: 70					
Note	qu	iestion	•	_	Attempt any four more or 2 to 7. All questions				
1.	Cho	se th	e correct alternat	ive :	7x2=14				
	(a)	The maximum net intensity of loading that							
		can	be imposed or	n the	soil with no				
		possibility of excessive settlement is:							
		(i) Allowable bearing capacity							
		(ii) Ultimate bearing capacity							
		(iii) Safe bearing capacity(iv) None of the above.							
	(b)	The wall which subdivides the space inside a building into rooms to serve different							
		functions is known as :							
		(i)	Retaining wall	(ii)	Cavity wall				
		(iii)	Partition wall	(iv)	Pier				
	(c)	east							
		into the concrete of the cap.							
		(i)	300 mm	(ii)	150 mm				
		(iii)	50 mm	(iv)	5 mm				

(d)	The provisions made to prevent the entry									
	of damp into a building are known as:									
	(i)	PCC		(ii)	RCC					
	(iii)	OPC		(iv)	DPC					
(e)	Horiz	zontal divi	er in a window							
	or door frame is called as :									
	(i)	Transom (ii)		Rebate						
	(iii)	Louver	(iv)	None	e of the above.					
(f)	The process of forcing cement slurry under									
	pressure into the cracks, voids, etc. Present									
	in the structure is called as:									
	(i)	Grouting								
	(ii)	Washing								
	(iii)	Damp proofing								
	(iv)	None of the above								
(g)	(g) The window which projects outward fr									
	alled as:									
	(i)	Bay window								
	(ii)	(ii) Dormer window								
	(iii) Gable window									
	(iv)	None of the above.								
(a)	Explain in brief the types of shallow 7									
	foundation.									
(b)	Differentiate between end bearing and 7									
	frictio	friction piles.								
			,							

2.

What are the different functions to be served 3. (a) 7 by cavity wall in a building? Explain the composition of reinforced brick (b) 7 work. Explain how post construction anti - termite (a) 4. 7 treatment is carried out in buildings. (b) Explain the assembly of a scafolding with 7 neat sketches. (a) Enlist the types of lintels and explain any 7 5. two. Discuss the factors affecting the selection of (b) 7 upper-floor flooring material/type. 6. Discuss jack arch floor with a sketch. 7 (a) (b) Explain the characteristics of materials commonly used in a damp proof construction. Draw the labelled sketches of rolling and 7 7. (a) collapsible doors. (b) Explain the design features of windows in 7 a room.