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BCE-024

DIPLOMA IN CIVIL ENGINEERING (DCLE(G))/ ADVANCED LEVEL CERTIFICATE COURSE IN CIVIL ENGINEERING (DCLEVI/ACCLEVI)

Term-End Examination

00161

June, 2015

BCE-024: CONSTRUCTION TECHNOLOGY - I

Time: 2 hours

Maximum Marks: 70

Note: Question no. 1 is compulsory. Attempt any four more questions out of questions no. 2 to 7. All questions carry equal marks.

1. Choose the correct alternative:

7×2=14

- (a) The maximum net intensity of loading that can be imposed on the soil with no possibility of excessive settlement is
 - (i) Ultimate bearing capacity
 - (ii) Allowable bearing capacity
 - (iii) Safe bearing capacity
 - (iv) None of the above
- (b) The provisions made to prevent the entry of damp into a building are known as
 - (i) DPC
 - (ii) OPC
 - (iii) RCC
 - (iv) PCC

(c)	_	e upper or external curve of an arch is own as		
	(i)	Intrados		
	(ii)	Soffit		
	(iii)	Extrados		
	(iv)	Crown		
(d)	pro	depression on the top face of a brick wided to form a key for holding the tar is called as		
	(i)	Fog		
	(ii)	Header		
	(iii)	Stretcher		
	(iv)	Frog		
exp		ne process of keeping brickwork wet on all posed faces for a minimum period of seven sys is called as		
	(i)	Curing		
	(ii)	Cutting		
	(iii)	Scaffolding		
	(iv)	None of the above		
(f)	The horizontal dividing member in a window or door frame is known as			
	(i)	Jamb		
	(ii)	Louver		
	(iii)	Threshold		

(iv) Transom

	(g)	The process of forcing cement slurry under pressure into the cracks, voids, etc. present in the structure is called as	
		(i) Washing	
		(ii) Grouting	
		(iii) Damp proofing	
		(iv) Water proofing	
2.	(a)	Explain under-reamed piles with a sketch.	7
	(b)	Describe end bearing pile and friction pile with sketches.	7
3.	(a)	Describe the various tests to be carried out to ascertain the quality of bricks.	7
	(b)	Explain the types of stone masonry.	7
4.	(a)	Describe pre-construction anti-termite treatment.	7
	(b)	What are the requirements of an ideal damp proofing material?	7
5.	(a)	Explain the details of an RCC lintel.	7
	(b)	What are the functions of arches? State the relative merits of lintels over the arches.	7
6.	(a)	Explain the factors affecting selection of ground floorings or wearing surfaces.	7
	(b)	Describe brick jack arch flooring with a labelled sketch.	7

- 7. (a) What are the various features to be considered while locating a door?
 - (b) Describe the various types of glasses used in the construction of doors and windows.