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No. of Printed Pages: 4

BCE-024

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

Term-End Examination December, 2015

BCE-024 : CONSTRUCTION TECHNOLOGY - I

Time: 2 hours Maximum Marks: 70

Note: Question no. 1 is compulsory. Attempt any four questions from the remaining questions. All questions carry equal marks.

- 1. Choose the correct alternative in questions (a) to (g), given below: $7\times2=14$
 - (a) 'Trial pit' is a term associated with:
 - (i) Beam
 - (ii) Arch
 - (iii) Flooring
 - (iv) Subsoil investigation
 - (b) Which of the following transfers the load to ground soil?
 - (i) Superstructure
 - (ii) Doors
 - (iii) Arches
 - (iv) Foundation

- (c) Which of the following types of stone masonry should be considered as the best?
 - (i) Random rubble
 - (ii) Squared rubble
 - (iii) Coursed rubble
 - (iv) Ashlar
- (d) Keeping the masonry work moist for some days after construction is called
 - (i) Termite proofing
 - (ii) Compacting
 - (iii) Curing
 - (iv) Cementation
- (e) Which of the following may not be considered for the stability of a reinforced concrete arch?
 - (i) Crushing of arch material
 - (ii) Sliding of wedge shaped blocks
 - (iii) Differential settlement of supports
 - (iv) All of the above
- (f) Wedge shaped unit fixed at the crown of an arch is called
 - (i) Spandril
 - (ii) Haunch
 - (iii) Springer
 - (iv) Key

(g)	Which of the following types of door is generally used for business purposes?	
	(i) Revolving door	
	(ii) Sliding door	
	(iii) Swinging door	
	(iv) Rolling steel shutter door	
2. (a)	Draw a neat sketch of a wall footing.	7
(b)	What do you understand by a deep	
	foundation? Draw a neat sketch of a particular type of it.	7
3. (a)	What do you understand by a retaining wall? Enlist the types of retaining walls	
	and briefly describe any one out of these.	7
(b)	Describe 24-hour immersion cold water test conducted on bricks.	7
4. (a)	Describe the features of any one bond provided in brick masonry.	7
(b)	Write the important points which should be checked while supervising brick masonry	
	construction work.	7
5. (a)	Describe the types of termites.	7
(b)	Explain the various causes of dampness in	
	buildings.	7
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6.	(a)	Give the classification of lintels. Draw a neat sketch of any one type given in the	
		classification.	7
	(b)	What is the purpose of using scaffolding?	
		Write the names of any two types of it.	7
7.	(a)	floorings used in buildings. Describe the	
		features of any one of these.	7
	(b)	Give the classification of doors. Briefly describe the features of any one type	
		considered in the given classification.	7
8.	Wri follo	te short notes on any two of the owing: $2 \times 7 =$	14
	(a)	Windows	
	(b)	Block Masonry	
	(c)	Glass and Glazing	

(d) Fixtures for Doors