

01335

DIPLOMA IN CIVIL ENGINEERING

Term-End Examination

June, 2010

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 number 2 to 7. All questions carry equal marks.

1. Choose the correct alternative : **7x2=14**
- (a) Which one of the following is a shallow foundation ?
- (i) Pile foundation
 - (ii) Well foundation
 - (iii) Raft foundation
 - (iv) None of the above
- (b) In case of RCC piles, the pile should project at least _____ into the pile cap.
- (i) 200 mm
 - (ii) 100 mm
 - (iii) 50 mm
 - (iv) 5 mm

- (c) The wall which helps in maintaining the level of the ground at different elevations on either side is called :
- (i) Cavity wall
 - (ii) Retaining wall
 - (iii) Partition wall
 - (iv) None of the above
- (d) The process of keeping brickwork wet on all exposed faces is called :
- (i) chasing
 - (ii) cutting
 - (iii) scaffolding
 - (iv) curing
- (e) The process of forcing cement slurry under pressure into the cracks, voids, etc. present in the structure is called :
- (i) Grouting
 - (ii) Damp proofing
 - (iii) Washing
 - (iv) None of the above
- (f) The end support of an arch is called :
- (i) Pier
 - (ii) Abutment
 - (iii) Soffit
 - (iv) None of the above

(g) The horizontal dividing member in a window or door is called :

(i) Transom

(ii) Threshold

(iii) Louver

(iv) Jamb

2. (a) Differentiate between end bearing pile and friction pile. 7
(b) Explain pile driving. 7
3. (a) Describe the various tests to be carried out to ascertain the quality of bricks. 7
(b) Enlist types of stone masonry and explain any two. 7
4. (a) Describe pre-construction anti-termite treatment. 7
(b) Enlist different methods of damp proofing. Describe any two. 7
5. (a) Enlist types of lintels and explain any two. 7
(b) What is meant by scaffolding? Enlist types of scaffolding and explain any two. 7

- 6. (a) Enlist the factors that need to be considered in selection of flooring for ground floor. 7
 - (b) Discuss jack arch floors. 7

 - 7. (a) Draw the labelled sketches of rolling and collapsible doors. 7
 - (b) Discuss the points to be considered while making provisions for windows in a room. 7
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