

# **MODEL QUESTION PAPER**

**DSC2**

## **III Semester DIPLOMA Examination, August 2011 CONSTRUCTION MATERIALS**

Time: 3 Hours

Max. Marks: 75

### **GROUP A : Answer any three questions.**

- Q.1 Mention the different types of varnishes.
- Q.2 State briefly the essential requirements of a good roof.
- Q.3 What are the requirements of good plaster? Explain various defects found in plaster.
- Q.4 State in detail the purpose procedure of dressing the stones.
- Q.5 Draw neat labeled sketch for a sectional elevation through a wall.

### **GROUP B : Answer any three questions.**

- Q.6 State various used of paints and varnishes in civil engineering field.
- Q.7 Mention the general rules to be observed to avoid the failure of formwork.
- Q.8 State what are the requirements of good brickwork. Distinguish between English bond and Flemish bond.
- Q.9 What are the properties of green concrete & hardened concrete?
- Q.10 Write a note on defects in timber?

### **GROUP C : All Questions are Compulsory.**

#### **Q.11 Fill in the blanks**

- (i) \_\_\_\_\_ consist of a tread and a riser.
- (ii) The horizontal structural member placed across the opening, to support the masonry above is \_\_\_\_\_.
- (iii) Modular size of bricks is \_\_\_\_\_
- (iv) \_\_\_\_\_ is the vertical joint in each course of the masonry work.
- (v) \_\_\_\_\_ is the angle formed at the intersection of two roof slopes.

#### **Q.12 Multiple choice question.**

- (i) The mixture of cement and river sand with suitable water-cement ratio.
  - (a) Cement concrete
  - (b) Cement mortar
  - (c) Cement paste
  - (d) None of these
- (ii) The depth of width ratio of shallow foundation is \_\_\_\_\_.
  - (a) Equal to one
  - (b) Greater than one
  - (c) Less than one
  - (d) None of these

- (iii) The Inclination of a sides of roof to the horizontal place is known as \_\_\_\_\_  
(a) Eaves (b) Pitch  
(c) Rafters (d) Hip
- (iv) The formation of a very small loose mass on the plastered surface is known as \_\_\_\_\_.  
(a) Cracks (b) Efflorescence  
(c) Popping (d) Flaking
- (v) The arrangement of stones and bricks in layers for masonry is called.  
(a) Coping (b) Bond  
(c) Frog. (d) None of these

**Q.13 True or false**

- (i) In English bond, in the same course headers & stretchers are placed alternately.
- (ii) Plate load test is the method adopted to improve the bearing capacity of soil.
- (iii) Undereamed bulbs increases the bearing capacity of soil.
- (iv) In Polygonal Rubble masonry the stones selected for the face work are dressed in an irregular polygonal shape.
- (v) Application of distemper over the plastered surface gives smooth appearance to the surface.

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