



**HDF-1601390101010400** Seat No. \_\_\_\_\_

**First Year B. A. (ID) (Sem. I) (CBCS) Examination**

**November / December – 2017**

**Materials & Construction - I**

Time : 3 Hours]

[Total Marks : 50

- Instructions :** (1) All questions are compulsory.  
(2) Any ambiguity will be considered as a wrong answer.

**1** Fill in the blanks : **10**

- (1) Rammed Earth is strong in \_\_\_\_\_.  
(tension, compression)
- (2) \_\_\_\_\_ bricks contain cylindrical holes throughout their thickness.  
(Perforated bricks, Bull nose bricks)
- (3) \_\_\_\_\_ rock is formed at earth's surface.  
(Volcanic, Plutonic)
- (4) Granite is an example of \_\_\_\_\_ rocks.  
(Plutonic, Volcanic)
- (5) Stratified rocks are one of the types of \_\_\_\_\_ classification.  
(Physical, Chemical)
- (6) Soft woods have \_\_\_\_\_ annular rings.  
(distinct, indistinct)
- (7) Hard woods have \_\_\_\_\_ colour.  
(dark, light)
- (8) The cement mortar proportion for plaster wall is \_\_\_\_\_  
(1 : 4, 1 : 6, 1 : 2)
- (9) Shear is a force that causes parts of a material to slide past one another in \_\_\_\_\_.  
(Same Direction, Opposite Direction)
- (10) The weight of a structure itself is called \_\_\_\_\_. The weight of the stuff on the structure is called \_\_\_\_\_.  
(Dead load, Live load, Dynamic Load)

- 2** Write short notes : (any **two**) **10**
- (1) Physical classification of stones.
  - (2) Draw the cross section of a tree trunk and name various parts and its function.
  - (3) Manufacturing process of Brick.
- 3** Answer any two of the following question (give few sketches where required) : **10**
- (1) Name the different bonds used in brick masonry.
  - (2) Describe briefly, with the help of sketches lengthening, transverse and framing joint in woodwork.
  - (3) What is the type of loads affecting a building or a structure?
- 4** Design a wall with any two of the given material - stone, timber, bamboo, brick. Represent through schematic drawings. **10**
- 5** Draft the designed wall. Draw Plan and Elevations. Give all the necessary dimensions. Scale 1:10. **10**
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