



PBK-1601390101010400 Seat No. _____
First Year B. A. (I. D.) (Sem. I) (CBCS) Examination
November / December - 2018
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) Stratified rocks are one of the types of _____ classification. (Physical, Chemical)
- (2) The structure of _____ rocks may be crystalline granular or compact granular. (Unstratified, stratified)
- (3) The dimension of brick module could be _____
(210 * 75 * 110, 230 * 65 * 115, 230 * 70 * 110)
- (4) Crushing strength of a normal mud brick should be greater than _____. (5.5 N/mm², 7.5 N/mm²)
- (5) Soft woods have _____ annular rings.
(distinct, indistinct)
- (6) Hard woods have _____ colour. (dark, light)
- (7) Hardwood has _____ medullar rays. (indistinct, distinct)
- (8) Water cement ratio should be _____ for ordinary concrete mix. (0.4, 0.5, 0.6)
- (9) Cement should be stored in _____ place.
(dry, wet, unclean)
- (10) _____ bricks contain cylindrical holes throughout their thickness.
(Perforated bricks, Bull nose bricks)

- 2** Write short notes : (any two) **10**
- (1) Properties of cement.
 - (2) Types of clay construction.
 - (3) Physical classification of stones.
- 3** Answer any two of the following questions : **10**
- (Give few sketches where required) :
- (1) Name the different bonds used in brick masonry.
 - (2) Name the different types of stone masonry.
 - (3) Draw the cross section of a tree trunk and name various parts and its function.
- 4** Design a 3.0 meter long and height between 1.2 to **10**
1.5 meter partition wall between living room and
kitchen with any two of the given material – timber,
bambo, brick. Represent through schematic drawings.
- 5** Draft the above designed wall. Draw Plan and Elevations. **10**
Give all the necessary dimensions. Scale 1:10.
