



JAP-1601390201010400 Seat No. _____

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

November - 2019

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) Good quality bricks when struck with each other give _____ sound. (clear metallic ringing, dull)
- (2) The dimension of brick module could be _____ (210*75*110, 230*65*115, 230*70*110)
- (3) Red colour to mud brick is given by _____ as constituents. (iron oxide, carbon)
- (4) Rammed Earth is strong in _____ (tension, compression)
- (5) _____ rocks are formed by the deposition of products of weathering on the preexisting rocks. (Sedimentary, Igneous)
- (6) _____ rocks are formed by the change in character of the pre-existing rocks. (Metamorphic, Igneous)
- (7) Stratified rocks are one of the types of _____ classification. (Physical, Chemical)
- (8) Soft woods have _____ annular rings. (distinct, indistinct)
- (9) Hard woods have _____ colour. (dark, light)
- (10) Hardwood has _____ Medullar rays. (indistinct, distinct)

2 Write short note following : (Any Two) 10

- (1) Properties of good Brick.
- (2) Explain qualities of a good stone.
- (3) Different types of shakes in timber.

- 3** Answer the following questions : (Any **Three**) **15**
- (1) Explain types of stone masonry with sketches.
 - (2) Draw the cross section of a tree trunk and name various parts and its function.
 - (3) Write the properties and uses of different natural stones.
 - (4) Name the different bonds used in brick masonry and show by sketches.
- 4** Design a 3.0m long and height 2.1m compound wall **15**
with an opening of 0.9m×1.8m any one of the given material-
stone, brick. Draw the plan of 1, 3, 5 and 2, 4, 6 course
and front elevation. (Scale 1 : 10)
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