

S.No. : 89

AR 102

No. of Printed Pages : 04

Following Paper ID and Roll No. to be filled in your Answer Book.

PAPER ID : 0102

Roll
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B. Arch. Examination 2019-2020
(Odd Semester)

CONSTRUCTION AND MATERIALS-I

Time : 3 Hours]

[Maximum Marks : 50

- Note :** (i) Attempt all questions.
- (ii) Support your answer with the neat sketches.

PART - A

1. Attempt all parts of the following : $1 \times 10 = 10$

(i) Tothing is related to brick masonry.
(True/False)

(ii) Flemish bond is expensive than English bond.

(True/False)

[P. T. O.]

- (iii) Sand is binding material. (True /False)
- (iv) Frog is integral part of
- (v) The lengthy face of the brick is known as
- (vi) External corners of the wall are called
- (vii) Pieces of stones are called
- (viii) Slaking of lime refers to
- (ix) D.P.C. stands for
- (x) Modular size of bricks

PART - B

2. Explain different various parts of building from foundation to roof with the help of vertical section of 230 brick wall at suitable scale. 10

OR

Explain the manufacturing process and properties of the cement. Support your answer with the help of neat sketch

3. Explain any five of the following : $5 \times 1 = 5$

(i) Brick Ballast

(ii) Pug mill

(iii) Drip course

(iv) Half bat

(v) P.P.C.

(vi) Mortar

PART - C

4. Write short note on any five of following :

$5 \times 2 = 10$

(i) Corbelling

(ii) Properties of first class brick

[P. T. O.]

- (iii) Lime
 - (iv) D.P.C. and its type
 - (v) Bulking of sand
 - (vi) Clay and clay products.
5. Design the foundation of 230mm thick brick boundary wall which is adjacent to another plot. Foundation depth is 900mm and width of trench is 900mm, Give plans of two consecutive course and section at suitable scale. 15

OR

Draw two consecutive course of "L" shaped one and half brick thick flemish bond in isometric. Use suitable scale.

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