

S.No. : 281

AR 1102

No. of Printed Pages : 03

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

PAPER ID : 10102

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B. Arch. Examination 2019-20

(Odd Semester)

BUILDING CONSTRUCTION AND MATERIALS - I

Time : Three Hours]

[Maximum Marks : 60

Note :- (i) Attempt all questions.

(ii) Assumed any missing data.

(iii) Be precise in your answer.

(iv) Extra marks for neatness.

SECTION - A

1. Explain / define the following questions : $8 \times 1 = 8$

(a) What is the full form of D. P. C.?

(b) Define the sill level.

[P. T. O.

- (c) What is the depression made on the face of bricks during moulding?
- (d) Write the name of the types of mortar.
- (e) What do you know about the term Mummy?
- (f) Define the cornice.
- (g) Name the types of stone masonry.
- (h) What is the size of traditional brick?

SECTION - B

2. Attempt any three parts of the following : $4 \times 3 = 12$

- (a) Write any five uses of each of the following building material :
 - (i) Cement
 - (ii) Stone
 - (iii) Clay
 - (iv) Lime
- (b) Differentiate the random rubble masonry and Ashlar masonry, with sketches.
- (c) Describe the characteristics of first class brick work and second class brick work.

- (d) Write short notes on any four of the following (with neat sketches) :
- (i) King closer
 - (ii) Queen closer
 - (iii) Bevelled bat large
 - (iv) Double bull nose
 - (v) Three quarter bat

SECTION - C

Note :- Attempt any two questions : $2 \times 20 = 40$

3. What is lime and its uses, advantages and disadvantages? Describe in detail. (Sketches if necessary).
4. To draw a section (vertical) of two storied building with staircase and show the all components of building from foundation to parapet level in the section.
5. Draw 230 mm thick wall masonry in English bond. Show the 6 courses in height of the wall in elevation, alternate course of plan, side elevation and section.