

9. (a) Differentiate between exogenous and endogenous trees. 10
- (b) What consideration should be taken into account for internal and external plastering ? Give the specification for these for a residence. 10

Roll No.

24065

B. Tech. 3rd Semester (Civil Engg.)
Examination – March, 2021
BUILDING CONSTRUCTION, MATERIALS

Paper : CE-203-F

Time : Three Hours]

[Maximum Marks : 100

Before answering the questions, candidates should ensure that they have been supplied the correct and complete question paper. No complaint in this regard, will be entertained after examination.

Note : Attempt five questions in all, selecting one question from each Section. Question No. 1 is compulsory. All questions carry equal marks.

1. Write short notes on the following : $2 \times 10 = 20$

- (i) Bullnose brick
- (ii) Ventilators
- (iii) Clay brick partition
- (iv) Raft Foundation

24065-

-(P-4)(Q-9)(21) (4)

24065-850 -(P-4)(Q-9)(21)

P. T. O.

- (v) Couple roof
- (vi) King post truss
- (vii) Horn
- (viii) Efflorescence
- (ix) Knots
- (x) Terra-cotta

SECTION - A

2. (a) What are the qualities of first class brick ? Write down their uses also. 10
- (b) How is artificial stone prepared ? What are its different forms ? 10
3. (a) What are the causes of failure of foundation ? What remedial measures are to be taken to prevent such failure ? 10
- (b) Briefly explain various method of providing foundation in waterlogged areas. 10

SECTION - B

4. (a) What is the function of roof ? Compare flat roof with slopy roof. 10
- (b) Describe the methods which are employed to make the flat roofs water proof. 10

5. Differential between the following with sketches : 10 × 2 = 20

- (i) Paneled door and Glazed door
- (ii) Fixed window and Pivoted window

SECTION - C

6. (a) Distinguish between damp proofing and water proofing. 10
- (b) What are the wet areas in a building ? Give the general principal of waterproofing of wet areas in a building. 10
7. (a) List the various factor to be taken into account in design of a conference hall. 10
- (b) What is meant by fire-resisting construction ? How does the Indian National building code classify building according to fire resistance ? 10

SECTION - D

8. (a) Give instance where are you will use : 10
 - (i) Random rubble work
 - (ii) Ashlar work
- (b) List the properties of good building bricks. 10