



**DDD-161001010202**

Seat No. \_\_\_\_\_

**B. Architecture (Sem. II) Examination**

**May - 2022**

**Building Materials & Construction - II**

Time : 2 Hours]

[Total Marks : 50

**Instruction :** Write to the point according to weightage and draw neat sketches with bulleted points

1 Give short answer with required sketches to the following 10 question.

Explain role of mortar in masonry.

**OR**

Explain any two in brick masonry with necessary sketches.

(1) Coping

(2) Corbeling

(3) Attached pier in  $1\frac{1}{2}$  thick brick wall in English bond.

2 Answer to the following question in brief : **20**

Give classification of earth construction technique with reference to moisture content.

**OR**

Draw scaled soft line or hardline drawing for 230 mm thick Flemish bond brick masonry wall with detail at corner and square end with 1 mt (approx.) wide window on any one side.

3 Answer to the following question in brief : (any four) **20**

(a) Draw a section of jack arch floor technique.

(b) Explain the dimension of brick as masonry module with required sketches.

(c) Explain dome with Squinch and Pendentive.

(d) Explain through stone in coursed random rubble stone masonry.

(e) Thumb rule for the soil mixture consistency that indicate its suitability for rammed earth.

(f) Explain in brief - Learning from hands on work on Campus at construction yard.