



BBL-161001010102 Seat No. _____

B. Arch. (Atkt) (Sem. I) Examination

July – 2021

Building Material & Construction - I

Time : 2 Hours]

[Total Marks : 50

NOTE: Draw neat sketches with labeling wherever it necessary

1. From the elements of building listed below choose any 5. Write down the function of this element and show the location of the element in the building. (15)

1. Beam
2. Chajja (External Projection)
3. Jamb
4. Coping
5. Plinth
6. Rain Spout
7. Transom
8. Cornice
9. Steel Column (Stanchion)

2. Draw a typical Window and explain the different component with label (15)

OR

Sketch the typical Plan and Side Elevation of a Straight-flight Stair and identify all the elements of the Stair. Total Rise is 2250 mm (size of riser is 150 mm). Calculate appropriate size of a tread and total going accordingly (15)

3. Differentiate between (Any 4) (10)

1. Sill and Lintel
2. Style and Rail in Window Shutter
3. Sliding Window and Louvered Window
4. Partition Wall and Load bearing Wall
5. Skirting and Vatta

OR

Explain the difference between Shallow foundation and Deep foundation. (10)
What is Soil Bearing Capacity?

4. Write down the **classification of the Stair** and basic sketch explaining its components. (10)

OR

Sketch the isometric of **two intersecting Sloping roof** and identify all the terms associated with the roof (10)