



**BBM-161001010302** Seat No. \_\_\_\_\_

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

**July - 2021**

**Building Materials & Construction - III**

Time : 2 Hours]

[Total Marks : 50

- 1 State 'True' or 'False'. Justify with short explanation : **15**  
(any **five**)
- (1) King post in king post truss is always in compression.
  - (2) In wooden single floor rafters are placed always on the shorter span.
  - (3) Thickness of head is always same as the post in doorframe.
  - (4) Holdfast is used to hold and fast the wooden shutter with wooden frame.
  - (5) Stringer beam in wooden stair is to support trade and riser through Tounge and groove joint.
  - (6) In Panel door glass is fixed with Wooden beading.
- 2 Draw with neat sketches : (any **two**) **10**
- (1) Ledge braced batten door shutter.
  - (2) Explain the difference between the term -'Ramp', 'Stair' and 'Ladder'.
  - (3) Queen post truss supported by masonry wall.
- 3 Draw (softline) isometric sketch of the following : **15**  
(any **three**)
- (1) Housing joint.
  - (2) Tenon mortise in doorframe.
  - (3) hand rail with Baluster.
  - (4) Principle rafter with tie beam in wooden truss.
- 4 Draw necessary drawings and sketches : (any **one**) **10**
- (1) Explain with sketches - anatomy of deciduous tree trunk.
  - (2) Conversion types of wooden log.