

University of Mumbai
Mahatma Education Society's
Pillai College of Architecture, New Panvel
Bachelor of Architecture Examinations November 2022

Subject: Architectural Building Construction and Material

Subject Code: 203

Maximum Marks: 70

Minimum Passing Marks: 28

Date: November 2022 (ATKT)

Duration: 3 hours

Notes:

- All Questions are Compulsory
- Marks will be given for clarity of sketch and relevant details.
- Sketches without labeling and dimension
- Read the question carefully,

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- 1- Design a roof with timber frame for a structure measuring (2500 X 6800) mm
 - a- Draft a roof framing plan showing all structural components. **(Marks - 10)**
 - b- Draft a Section through 'Roof Only' showing timber truss. Label and dimension wherever necessary. **(Marks - 10)**
 - 2- Answer any two of the following question. **(Marks - 20)**
 - c- Sketch and label typical section of plinth detail for a load bearing structure.
 - d- Sketch and label a plan, section and elevation of a single shutter timber Window.
 - e- Sketch and label typical floor framing 'plan' for a room spanning 3500mm X 6500mm.
 - 3- Answer any three of the following question **(Marks - 30)**
 - f- Write steps in manufacturing of Glass as a building material
 - g- Write with an example, a short note on a sustainable building material used in building construction industry.
 - h- Write a short note on seasoning of wood.
 - i- Write difference between UPVC, PVC and CPVC