



Enrolment No. _____

SARVAJANIK UNIVERSITY

S-2026 Date: 05-08-26 Time: 09:30 AM to 11:30 AM
Interim-Backlog Exam

Bachelor of Interior Design – SEMESTER - II – EXAMINATION

Course Code: BIID41201

Total Marks: 50

Course Name: Building Materials, Systems and Environmental Studies

Instructions:

1. Attempt all questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.
4. Draw sketches wherever required

Q.1. Do as Directed

10 Marks

1. Latitude refers to distance from the _____
2. Vertical louvers are effective for _____ and _____ orientations.
3. All members of truss are connected by fixed joint (True/False)
4. Stress is given by equation = load / cross section area (True/False)
5. The portion of brick cut across the width in the half is called
a) Half Split b) Half Closer c) Half Bat d) Half Bed
6. In Stretcher bond brick laid with its length parallel to the face or front or direction of the wall.
7. Joists_ is the Horizontal wood members that support floors and ceilings.
8. Stone wall can be constructed without use of mortar (True/false)
9. Random rubble masonry uses _____ stones. Irregular
10. Cold climate requires _____ heat gain.
a) Low b) maximum c) medium d) no

Q.2 Answer the following in brief (Any 2)

10 Marks

1. Enlist the component of the wooden door. Mention the general size of doors used in residential buildings.
2. What are factors affecting climate?
3. Types of stone masonry.
4. Explain English bond.

Q.3. Answer in Detail (Any 2)

20 Marks

1. Classify space frame structure based on basic types and sketch
2. Enlist the key component of the wooden staircase & define any two of the components.
3. Define macro and microclimate, explain its importance.
4. Explain stone masonry construction techniques.

Q.4. Answer the following (Any 2)

10 Marks

1. Types of brick bats and closers.
2. Sketch of Courtyard in built form and how it helps in ventilation
3. Draw the sketch of wooden floor construction showing the components
4. Draw plan and elevation of Random rubble masonry

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