



Enrolment No. _____

SARVAJANIK UNIVERSITY

S-2026 Date: 05-05-26 Time: 01:30 PM to 03:30 PM
Regular / Backlog Exam

Bachelor of Interior Design – SEMESTER - II - EXAMINATION

Course Code: BIID41202

Total Marks: 50

Course Name: Building Materials, Systems and Environmental Studies

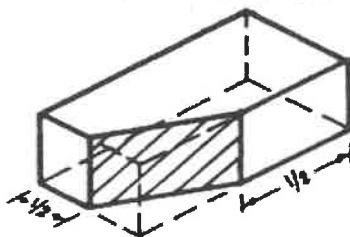
Instructions:

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

Q.1. Do as Directed

10 Marks

1. Cavity wall consists of _____ walls separated by a gap.
2. Exposed brickwork faces problems of _____.
3. Mortise and tenon is a type of _____.
4. Climate is long-term average of _____.
5. Macroclimate refers to _____ scale climate.
6. Stress is given by equation = load / cross section area
7. All members of truss are connected by fixed joint
8. Stone wall can be constructed without use of mortar
9. Brick walls are light in weight compared to stone walls
10. Identify the given image.



- a.) Mitred Closer b.) King Closer c.) Bevelled Closer d.) Bevelled bat small

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

10 Marks

1. What are the qualities of good brick
2. Explain Stone masonry and its uses.
3. Hyperbolic paraboloid shell & conoid shell
4. Enlist the various wooden joinery. Sketch any two wooden joineries in detail.

Q.3. Answer in Detail (Any 2)

20 Marks

1. Classify & draw any 4 types of shell structure.
2. Enlist the key component of the wooden staircase & define any two of the components
3. Explain with sketch – Plan (odd and even course plan) and elevation of one brick thick English bond
4. Discuss landscape elements in microclimate creation.

Q.4. Answer the following (Any 2)

10 Marks

1. Explain the difference between 1st class 2nd class and 3rd class brick.
2. Enlist the wooden construction building component
3. Explain types of pointing.
4. Enlist types of Ashlar masonry and explain any 2 in detail with sketch.

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