



Enrolment No. _____

SARVAJANIK UNIVERSITY

S-2026 Date: 04-05-26 Time: 01:30 PM to 03:30 PM
Regular / Backlog Exam

3

Bachelor of Interior Design – SEMESTER - II – EXAMINATION

Course Code: BIID31202

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. _____ is the horizontal part of the step where we step on to go up or down.
2. _____ are the Sloped wood members that support the roof structure.
3. Stone masonry having finely dressed stones laid in cement or lime mortar is known as _____
4. Hoop compression is circumferential compression in which diameter is trying to reduce.
(True/False)
5. Brick walls are light in weight compared to stone walls (True/False)
6. The Earth is tilted at approximately _____ degrees.
7. Rajasthan one of the state of India falls under hot and humid climate is it (True/False)
8. A good brick should not absorb more than what percent of water when soaked?
a) 15% b) 20% c) 30% d) 10%
9. Ashlar masonry uses:
a) Dimension stones b) Polygonal stones c) Quarry dressed stones d) Square stones
10. Most part of India receives rainfall from _____
a) March to June b) June to September c) august to November d) November to February

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

10 Marks

1. Enlist the various wooden joinery.
2. What is cross ventilation?
3. Explain Stone masonry and its uses.
4. Explain the difference between 1st class 2nd class and 3rd class brick

Q.3. Answer in Detail (Any 2)

20 Marks

1. Classification of doors. Draw & label the single shutter wooden frame detail.
2. Explain importance of temperature stresses, factors affecting temperature stress & how it can be taken care of.
3. Explain design considerations for hot and dry climate
4. What are the qualities of good brick

Q.4. Answer the following with sketches (Any 2)

10 Marks

1. Enlist the part of the window. Draw & label component of casement window.
2. Load transfer in arch with drawing
3. Sketch daylight penetration in a room.
4. Sketch different types of pointing.

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