



Enrolment No. _____

SARVAJANI UNIVERSITY

S-2026 Date: 19-06-26 Time: 09:30 AM to 11:30 AM
Regular Exam

Bachelor of Architecture – SEMESTER - II - EXAMINATION

Course Code: BRAR21201

Total Marks: 50

Course Name: Building Materials, Construction 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. Bricks are made from _____.
2. English bond consists of alternate courses of _____ and _____.
3. Humidity refers to _____ in air.
4. Latitude and Altitude affect _____.
5. Microclimate refers to _____ scale climate.
6. Wood is a _____ material.
7. Joists support _____ and ceilings.
8. Rafters support _____ structure.
9. Hot-humid climate has _____ humidity.
10. Stone masonry having finely dressed stones laid in cement or lime mortar is known as _____.

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

10 Marks

1. What are the Chemical Components present in the soil for good brick earth?
2. Explain types of pointing.
3. Characteristics of hot and dry climate.
4. Enlist the wooden construction building component

Q.3. Answer in Detail (Any 2)

20 Marks

1. Explain the function of the window. Enlist the parts window. Enlist the type of window.
2. Explain brick manufacturing process in detail.

3. Discuss Rubble masonry vs Ashlar masonry, explain through sketch showing 1 – 1 example of each masonry.
4. Explain role of materials in climate design.

Q.4. Answer the following (Any 2)

10 Marks

1. Enlist the various wooden joinery. Sketch any two wooden joineries in detail.
2. Enlist types of brick bats and closers. Sketch & explain any five
3. Explain Random rubble masonry with sketch.
4. Explain passive solar design.