



Enrolment No. _____

SARVAJANIK UNIVERSITY

W-2025 Date: 02-12-25 Time: 09:30 AM to 11:30 AM
Regular / Backlog Exam

Bachelor of Interior Design – SEMESTER - I - EXAMINATION

Course Code: BIID41101

Total Marks: 50

Course Name: Basics of Building Materials, Components and Structures

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. The process of heating limestone to get lime is called _____.
2. Plastics are lightweight compared to metals and wood. (True or False)
3. Due to excess moisture the timber _____.
a) Cracks b) Bends c) Reduces to pieces d) None of these
4. Which of these can be used as alternative for sand?
a) Surkhi b) Burnt coal c) Quarry dust d) all of the above
5. Sandstones are _____ type of rock.
6. Soil in Surat is _____ soil.
7. Strap foundation is also known as _____.
8. Is wood a sustainable material True or False
9. There is very limited use of bamboo as foundation material because when in contact with moisture laden surfaces they decay fast. (Agree or Not agree)
10. Which of the following is the purest form of iron?
a) Cast iron b) Wrought iron c) Mild steel d) High carbon steel

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

10 Marks

1. Explain Static & dynamic load
2. Mention two functions of sand in construction?
3. Characteristics of good timber and compare hard and soft wood

4. Properties of cement and its use in building construction

Q.3. Answer in Detail (Any 2)

20 Marks

1. Wall section of Load Bearing Structure and label the components
2. Rock cycle
3. Cross section of Tree with all its layers
4. Sketch example of axial tension

Q.4. Answer the following (Any 2)

10 Marks

1. Explain types of shallow foundation with sketches
2. Type of Stone & its uses
3. Explain the Properties of Metals. Enlist the various forms of metals available in the market.
4. Enlist the methods of Working on bamboo. Explain any one in detail.