

Enrolment No. _____

SARVAJANIK UNIVERSITY

W-2024 Date: 20-11-24 Time: 13_30 - 16_30

Backlog Exam

B. Interior Design - SEMESTER- I EXAMINATION

Course Code: BIID11103

Total Marks: 180

Course Name: Basics of Building Materials, Components and Structure

Instructions:

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

Q.1. (A) Do as directed

(20)

1. Clay is much more versatile, manageable & eco friendly than wood. (True or False)
2. Lime is obtained from _____
3. Good sand should have a good amount of salt in it. (True or False)
4. Building can be broadly divided into two components _____ and _____
5. Stability means to allow movement (True or False)
6. Full form of PPC in building construction
7. Load from footing is transferred to _____.
8. As a construction material wood is as strong as concrete. (True or False)
9. Strap foundation is also known as _____
10. Plinth is a part of the sub structure. (True or False)

(B) Multiple choice questions

(20)

1. Which type of sand is commonly used for making mortar and concrete due to its well-graded particles?
a) Desert sand b) Beach sand c) River sand d) volcanic sand
2. When we cut apple load is transferred by
a) Shear b) tension c) bending d) torsion
3. In RCC building tension is taken by
a) Steel b) concrete c) sand d) water

4. Which type of stone is often used in construction due to its durability and resistance to weathering?
a) Limestone b) Sandstone c) Shale d) Slate
5. Beam at plinth level of a structure is known as
a) Plinth beam b) ground beam c) Top beam d) foundation beam
6. Center to center distance between two column is known as
a) Span of a beam b) span of slab c) span of column d) none of these
7. Which amongst these stones are commonly used on kitchen platform tops?
a) Kotah b) White Makrana Marble c) Laterite d) Granite
8. Which of these can be used as alternative for sand
a) Surkhi b) Burnt coal c) Quarry dust d) all of the above
9. Load bearing structure transfers vertical load of beam by
a) Load bearing walls b) RCC column c) Beam d) soil
10. Which clay is used to make Flower pots & Diwali Diya?
a) Porcelain clay b) Earthenware clay c) Stoneware clay d) none of the above

Q2. Explain the following (Any FOUR)

(20)

1. List down the various types of Glasses sketch different uses of the same.
2. What is the requirement of a good foundation?
3. What are laminates? List its application in interiors.
4. Explain Stability
5. Explain bending action by giving proper example

(B). Answer in Brief (Any Four)

(20)

1. Explain different types of cement and its properties
2. Explain bending action
3. Write a short note on Aggregates.
4. Explain any 3 different types of clay .
5. What are the properties of plastic as a building material?

Q3: Sketch and Label the following in detail (Any Five)

(50)

1. Draw a crosssection of timber log
2. Draw any 2 different building elements
3. Sketch load distribution diagram in Load bearing structure
4. Steel I-section, T-section and Box section
5. Jack arch slab
6. Natural Seasoning process of timber

Q4. Answer in detail with neat sketches. (Any two)

(50)

1. Properties of Plastics and its Uses. Sketch different forms of plastic as base material used in interior design.
2. What are the characteristics of good timber? Explain with the help of neat sketches the structure of a tree with all the components
3. What is a Load Bearing structure in a building? Explain with neat wall sections various elements of the structure and its functions.

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