Enrolment No._____

SARVAJANIK UNIVERSITY

W-2024 Date: 26_03_2025
09_30 am to 12_30 am
Remedial/Re-Exam

B.I.D.-IV - SEMESTER– VII EXAMINATION

Course Code : BIID11702 **Total Marks: 180**

Course Name: Advance Interior Materials System and services

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

Q-1. Do as Directed (Attempt All) **36 Marks**

1. Down cycling occurs when a waste material is converted into something of less value than it originally was. (say True / False)
2. State the full form of DALI
3. Carbon Monoxide emission is the biggest contributor to global climate change. (say True / False)
4. Individual carbon footprint is based on an individual's consumption habit. (say True / False)
5. The concept of Recycling of material for reuse increases the life assessment of materials (say True / False)
6. _____ building material produces maximum carbon dioxide in its production?
7. Green Interiors done for a project should necessarily be lesser in cost. (say True / False)
8. For doing 'green or sustainable interiors', the biggest priority shall be given to the materials that have the quality of _____
9. The concave surface may be provided for concentration of reflected sound waves at one point (say True / False)
10. Reverberation is an acoustical defect (say True / False)
11. The loudness of the sound is measured in _____
12. The pitch of the sound is measured in _____
13. If the acoustic energy can be absorbed entirely, then the value of α = _____
14. Elaborate B.A.S.
15. The analog signals have continuous electrical signals, while digital signals have non-continuous electrical signals (say True / False)
16. Sensors present the computer with information about the state of the system. On the other hand, actuators accept commands to perform a function. (say True / False)
17. Define Sensor
18. Actuator changes a physical parameter to an electrical output (say True / False)

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Q-2 Answer the following in brief (Any Six) **36 Marks**

1. What are the properties of carbon fiber?
2. Define Carbon Footprint. Write down in brief about all the three types of carbon footprints.
3. Explain the concept of 3R's in detail. Give examples of materials also.
4. What is Acoustic? Enlist the principles of acoustics
5. Give the reasons for acoustical needs
6. Define: Ecological Footprint.
7. What are the components of a wireless security system?
8. What are the types of sensors used in lighting

Q-3 Answer the following in detail (Any Six) **72 Marks**

1. What are the features of sustainable building materials? List any 5 and explain in brief.
2. Explain briefly at least 6 green materials used in interior designing of buildings. Write down its common uses in interiors.
3. Write down in detail about the IGBC Green Interior Rating system.
4. Write down in detail about the manufacturing process, production and usage of 'Recycled Plastic' as a building material.
5. What Is A Building Automation System? Explain the Benefits and Drawbacks of installing A Building Automation System?
6. Explain in detail about principles of acoustics
7. What is the sensor? Define the type of Sensor, Explain any three types of the sensor in detail

Q-4 Answer the following with sketch (Any Two) **36 Marks**

1. Explain in detail about acoustical defects
2. Discuss briefly the steps taken for design and implementation of perimeter security Planning.
3. What are the points to be considered for acoustical design?