

SARVAJANIK UNIVERSITY

W-2024 Date: 28_03_2025

09_30 a.m. to 12_30 p.m.

Interim Backlog Exam

MID - SEMESTER– I EXAMINATION**Course Code: MHID11102****Total Marks: 60****Course Name: Futuristic Material****Instructions:**

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

Q1.	Answer the following (Compulsory)	
	<ol style="list-style-type: none"> 1. Define Futuristic 2. Explain Reusable / Recyclable / Up cyclable 3. Explain sustainability with respect to futuristic materials 4. What are the properties of carbon fiber? 5. List the Characteristics of sustainable materials 6. What are the Binder materials for carbon fiber? 	12 Marks
Q.2	Answer the following (Any 4)	12 Marks
	<ol style="list-style-type: none"> 1. Differentiate between Recycling and upcycling 2. Explain Advantages and Disadvantages of intelligent building 3. Explain Cork uses and its applications 4. Explain Self-healing concrete 5. Explain Bio - Plastic 6. Explain Intelligent building 	
Q.3.	Answer the following (Any 3)	
	<ol style="list-style-type: none"> 1. Name the various green cycles which are adopted to save environment. 2. What are the features of sustainable building materials? List any 5 and explain in brief. 3. Define LAN and enlist type of LAN Network. 4. Why using sustainable building materials makes sense economically as well as ecologically. 	18 Marks

Q.4.	Answer the following (Any 3)	18 Marks
	<ol style="list-style-type: none"> 1. Which technologies are there to craft the materials? Mentioned any 3. Explain one. 2. Enlist the characteristics / properties of the material given to you for based study. Give illustrations/explorations for the usage of material in various forms and further give Design application for the given material. 3. Mention any 3 futuristic material and give brief about one of them, how it is futuristic material. 4. What does it mean to be 'green', or 'eco-friendly', and what part does sustainability play when using construction materials nowadays? 	