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 **PRESIDENCY UNIVERSITY**

  **Bengaluru**

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| **End - Term Examinations – JANUARY 2025** |
| **Date:** 07 – 01- 2025 **Time:** 01:00 pm – 04:00 pm |

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| --- | --- |
| **School:** School of Design | **Program:** B.Des/BSM |
| **Course Code:** DES1046 | **Course Name:** Basic Material Technology  |
| **Semester**: III  | **Max Marks**: 100  | **Weightage**: 50% |

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| --- | --- | --- | --- | --- | --- |
| **CO - Levels** | **CO1** | **CO2** | **CO3** | **CO4** | **CO5** |
| **Marks** | **10**  | **35** | **55** |  |  |

**Instructions:**

1. *Read all questions carefully and answer accordingly.*
2. *Do not write anything on the question paper other than roll number.*

**Part A**

|  |
| --- |
| **Answer ALL the Questions. Each question carries 2marks. 10Q x 2M=20M** |
| **1** | Explain the two types of commercial woods used in buildings. | **2 Marks** | **Remembering**  | **CO1** |
| **2** | Differentiate hardwood and soft woods. | **2 Marks** | **Remembering**  | **CO1** |
| **3** | Explain any two disadvantages of stone as a building material. | **2 Marks** | **Remembering**  | **CO1** |
| **4** | What are the disadvantages of wood. | **2 Marks** | **Remembering**  | **CO1** |
| **5** | Explain any two ingredients of a natural paint.  | **2 Marks** | **Remembering**  | **CO1** |
| **6** | Explain the use of paint in building interiors. | **2 Marks** | **Understanding**  | **CO2** |
| **7** | Explain distemper. | **2 Marks** | **Understanding** | **CO2** |
| **8** | List any two companies manufacturing paints. | **2 Marks** | **Understanding** | **CO2** |
| **9** | What is the use of bamboo in building interiors? | **2 Marks** | **Understanding** | **CO2** |
| **10** | List sustainable options for stone. | **2 Marks** | **Understanding** | **CO2** |

**Part B**

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| **Answer the Questions. Total Marks 80** |
| **11.** |  | 1. Explain in detail about Wood.

(15 Marks)1. Discuss the role and importance of wood in building materials.

(10 Marks) | **25 Marks** | **Understanding** | **CO2** |
| **or** |  |  **Or**  |
| **12.** |  | 1. Discuss sustainable paint.

(10 Marks)1. Discuss 3 types of sustainable paint in detail. (15 Marks)
 | **25 Marks** | **Understanding** | **CO2** |
|  |  |  |  |  |  |
| **13.** |  | 1. Explain the evolution of stone since Industrial Revolution.

(15 Marks)1. Explain how the changes of stone have modified through different eras.

(10 Marks) | **25 Marks** | **Applying**  | **CO3** |
| **or** |  |  **or** |
| **14.** |  | 1. Explain decay in wood.

(5 Marks)1. Discuss the limitations of wood.

(5 Marks)1. Explain the use of preservative to avoid the decay in wood.

(15 Marks) | **25 Marks** | **Applying**  | **CO3** |

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| **15.** |  | Explain the manufacturing process and ingredients used in natural paints. | **15 Marks** | **Applying**  | **CO3** |
| **Or** |  | **or** |
| **16.** |  | Explain about the sustainable options for wood and stone. | **15 Marks** | **Applying**  | **CO3** |

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| **17.** |  | 1. Draw a sketch of a Nepalian house.

(5 Marks)1. Explain the use of wood in a Nepalian house. (10 Marks)
 | **15 Marks** | **Applying**  | **CO3** |
| **Or** |  |  **Or**  |
| **18.** |  | Explain various ways in which paints were used in historical buildings and support your answer with relevant sketches. | **15 Marks** | **Applying**  | **CO3** |

**\*\*\*\*\* BEST WISHES \*\*\*\*\***