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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**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **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 \*\*\*\*\***