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**Semester:**  IV -2023

**Course Code:** DES1047

PRESIDENCY UNIVERSITY BENGALURU

SCHOOL OF DESIGN

SUMMER TERM(AUGUST)

**END-TERM EXAMINATION - 2024**

**Date:** 06-08-2024

**Time:** 9:30 AM - 12:30PM

**Course Name:** Advanced Material Technology

**Program:** B.des.Space Design

# Max Marks: 100

**Weightage:** 50%

# Instructions:

1. *Read all questions carefully and answer accordingly.*
2. *The question paper consists of 3 parts.*
3. *Scientific and non-programmable calculators are permitted.*
4. *Do not write any information on the question paper other than Roll Number.*

**PART A**

**ANSWER ALL THE QUESTIONS (4 X 5 = 20M)**

1. Describe the installation process of a gypsum board false ceiling and the key considerations to ensure a successful installation.
2. What are the primary types of wall cladding materials, and what are their key characteristics?
3. Explain the various materials used to lay tile flooring with illustrations (Mention in order).
4. Define the perimeter channel with relevant sketches.

(CO1) [Knowledge] (CO1) [Knowledge] (CO1) [Knowledge] (CO1) [Knowledge]

**PART B**

**ANSWER ALL THE QUESTIONS (5 X 10 = 50M)**

**5.**Explain the various types of floorings and their advantages and disadvantages with illustrative examples.

(CO1,) [Knowledge]

**6.** Write a brief note on any three of the below:

* Partitions and their advantages
* Stone flooring
* Vitrified and full body tiles
* MDF wall cladding
* False Ceiling materials

(CO2,) [Comprehension]

**7.**Discuss the various types of partition materials used in modern construction. How do these materials impact the functionality and aesthetics of a building?

(CO3,) [Application]

**8.** What are the primary differences between solid hardwood flooring and engineered hardwood flooring?

(CO2,) [Comprehension]

**9.** Sketch the details of a partition wall. (CO3,) [Application]

**PART C**

**ANSWER THE FOLLOWING QUESTION (2 X 15 = 30M)**

**10**. Write a note about false ceilings and discuss the different kinds of false ceilings, their advantages and disadvantages, their components, and the installation process.

(CO2) [Comprehension]

**11**. Write a note on two flooring materials with their advantages and disadvantages. Sketch the flooring detail for a residence.

(CO3,) [Application]