



**PRESIDENCY UNIVERSITY  
BENGALURU**

**SCHOOL OF DESIGN  
END TERM EXAMINATION - JAN 2023**

**Semester :** Semester V - 2020

**Course Code :** BDP303

**Course Name :** SEM V - BDP303 - Material Decisions and Preparation

**Program :** B. Design - PD

**Date :** 11-JAN-2023

**Time :** 9.30AM - 12.30PM

**Max Marks :** 100

**Weightage :** 50%

**Instructions:**

- (i) Read all questions carefully and answer accordingly.
- (ii) Question paper consists of 3 parts.
- (iii) Scientific and non-programmable calculator are permitted.

**PART-A**

**ANSWER ALL THE FOLLOWING QUESTIONS**

**3Q X 10M = 30M**

1. How long do natural and artificial materials last and how durable are they? How do man-made and natural materials affect the appeal of a certain product or design? (CO3,CO4,CO2) [Knowledge]
2. What are the primary elements that affect the choice of materials when designing a product? How do the physical and chemical characteristics of materials affect their applicability for various product design applications? (CO3,CO5,CO4) [Knowledge]
3. In comparison to conventional materials, what are the environmental effects of adopting composite materials in product design? What are the drawbacks and restrictions of using composite materials in the design and manufacture of products, and how do architects, engineers, and designers approach these issues? (CO2,CO3,CO5,CO4) [Knowledge]

**PART-B**

**ANSWER ALL THE FOLLOWING QUESTIONS**

**2Q X 15M = 30M**

4. Paper packaging is becoming common and can be seen everywhere. What kind of packaging would you recommend, as well as a material that might be utilized in place of paper that is more environmentally friendly and sustainable? (CO5,CO4,CO2,CO3) [Comprehension]
5. What are the common alloy kinds utilized in product design and how do they vary in terms of their uses and properties? How are the characteristics and performance of alloys affected by the acquisition and fabrication processes? (CO4,CO3,CO2) [Comprehension]

**PART-C**

**VIVA / JURY**

**1 X 40M = 40M**

6. Discuss on the topic and defend the jury clarifications.

(CO2,CO3,CO4,CO5) [Application]

\*\*\*\*\*