



**PRESIDENCY UNIVERSITY
BENGALURU**

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

Semester : Semester III - 2021

Course Code : DES1075

Course Name : SEM III - DES1075 - Materials tools and techniques

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 does the hardness of a material influence its resistance to wear and deformation?
(CO1,CO3,CO2,CO4) [Knowledge]
2. Give suitable examples as you describe the properties of wood. Draw and depict the instances
(Any 2 application)
(CO1,CO4,CO2,CO3) [Knowledge]
3. What tools are used to shape metal wire? Describe the properties of metals and how they are used.
Make a simple form using the wire. (using 8 inches-long wire)
(CO1,CO3,CO2,CO4) [Knowledge]

PART-B

ANSWER ALL THE FOLLOWING QUESTIONS

2Q X 15M = 30M

4. Make a simple product using a thermocol block measuring 15 by 15 cm. Use line drawing to draw the product on paper, and keep it simple. It is also necessary to include the tools used to create the form. The product must have the proper proportions. The finished product must correspond to the original sketch.
(CO3,CO1,CO4) [Comprehension]
5. Give a thorough analysis of the pen's materials as well as any other ones that might be available. Describe the characteristics of pen material. (Any 2 materials characteristics)
(CO3,CO2,CO1) [Comprehension]

PART-C

VIVA/ JURY

1 X 40M = 40M

6. Present the given topic and defend the jury clarification

(CO4,CO3,CO1,CO2) [Application]
