



**PRESIDENCY UNIVERSITY  
BENGALURU**

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

**Semester :** Semester V - 2020

**Course Code :** BDP301

**Course Name :** SEM V - BDP301 - Digital Prototyping

**Program :** B. Design (PD)

**Date :** 9-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 can virtual models of a product be developed and tested using digital prototyping in order to assess their form, functionality, and user experience?  
(CO4,CO2,CO3) [Knowledge]
2. What potential obstacles or constraints in the design process can be identified and addressed using digital prototyping?  
(CO3,CO2,CO4) [Knowledge]
3. How can advanced materials or technologies be incorporated into prototypes using digital prototyping?  
(CO3,CO4,CO2) [Knowledge]

**PART-B**

**ANSWER ALL THE FOLLOWING QUESTIONS**

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

4. Draw a picture of the chair model on paper and sketch it; the drawing should be in line drawing or doodles. Create a thorough digital model of a chair, take a screenshot of the orthographic view of the item, and describe the tools used.  
(CO4,CO3,CO2) [Comprehension]
5. Create several focus groups using the model created in question 1 and place the screenshots accordingly. Give reasons for the decision using the focus groups that were chosen.  
(CO4,CO2,CO3,CO5) [Comprehension]

**PART-C**

**VIVA / JURY**

**1 X 40M = 40M**

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

(CO4,CO2,CO3) [Application]

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