



**PRESIDENCY UNIVERSITY
BENGALURU**

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

Semester : Semester VII - 2019

Course Code : BDP403

Course Name : SEM VII - BDP403 - Form and Functions Biomimicry

Program : B. Design - PD

Date : 12-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. What is biomimicry and how does it relate to design and innovation?
(CO3,CO2,CO1,CO4) [Knowledge]
2. Discuss the role of biomimicry in the development of new technologies and products that are more sustainable and environmentally friendly?
(CO2,CO3,CO4,CO1) [Knowledge]
3. How does the study of biomimicry inform our understanding of natural systems and processes, and how can it be used to solve real-world problems? Illustrate with an example.
(CO2,CO3,CO1,CO4) [Knowledge]

PART-B

ANSWER ALL THE FOLLOWING QUESTIONS

2Q X 15M = 30M

4. You are supposed to come up with a design that will provide maximum functionality while using a drilling machine. By using the inspiration of biomimicry design the product will ensure maximum functionality and safety for users' health and well-being.
(CO4,CO3,CO2,CO1) [Comprehension]
5. How do industrial production methods impact the natural environment and the forms and functions of species within it?
(CO4,CO3) [Comprehension]

PART-C

VIVA / JURY

1 X 40M = 40M

6. Present the given topic and defend the jury clarifications.

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