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**PRESIDENCY UNIVERSITY  
BENGALURU**

**SET A**

**SCHOOL OF DESIGN  
END TERM EXAMINATION - JAN 2024**

**Semester :** Semester V - 2021

**Course Code :** CIV3059

**Course Name :** Sustainability for Designers

**Program :** B. Design

**Date :** 03-JAN-2024

**Time :** 1:00 PM - 4:00 PM

**Max Marks :** 100

**Weightage :** 50%

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**Instructions:**

(i) Read all questions carefully and answer accordingly.

(ii) Question paper consists of 3 parts.

(iii) Scientific and non-programmable calculator are permitted.

(iv) Do not write any information on the question paper other than Roll Number.

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**PART A**

**ANSWER ALL THE QUESTIONS**

**4X5M=20M**

1. What are the four Pillars of Sustainability? Can you give an example for each one?  
(CO1) [Knowledge]
2. What challenges do future designers face in conserving the environment today?  
(CO1) [Knowledge]
3. Explain sustainable development in terms of what needs to be developed and what needs to be sustained. Why is this interpretation important?  
(CO1) [Knowledge]
4. Provide the names of SDGs 4, 6, 9, 11, and 13 along with their indicators.  
(CO1) [Knowledge]

**PART B**

**ANSWER ALL THE QUESTIONS**

**5X10M=50M**

5. As a designer, could you give examples from the food and health industries illustrating the integration of CSR and SDGs by corporations?  
(CO2) [Comprehension]
6. Explain five important implications and benefits of the SDGs, providing examples where applicable.  
(CO2) [Comprehension]

7. How do designers balance environmental, economic, and social sustainability conflicts to arrive at an optimal design?  
(CO2) [Comprehension]
8. Fashion / Space design / Product design industries causes a lot of damage to the environment. List and explain in detail the three major concerns caused by these industries on the environment  
(CO2) [Comprehension]
9. In a study related to plastic and paper cup usage on a university campus, explain how you assessed the environmental, economic, and social impacts using sustainability concepts, LCA, and design thinking. Give examples, data, and methodology used.  
(CO2) [Comprehension]

### **PART C**

#### **ANSWER ALL THE QUESTIONS**

**2X15M=30M**

10. The Life Cycle Assessment (LCA) method evaluates the environmental implications of a product, process, or service throughout its full life cycle, from raw material extraction to manufacture, usage, and disposal. It takes into account the environmental burdens and potential repercussions associated with each stage, such as resource depletion, energy consumption, emissions to air, water, and soil, and waste generation. Why is life cycle assessment important? What is lifecycle inventory analysis? What is the importance of life cycle inventory analysis? Provide answer to these questions related to your specialization study, i.e., Fashion Design, Space Design and Product Design.  
(CO3) [Application]
11. You have carried out the minor project on Case Study of plastic/paper cups used in various eating outlets at Presidency University, what are the sustainable replacements? Provide a detailed report on The Sustainability of Paper Cups: An Analysis and Future Solutions  
(CO3) [Application]