Roll No.												

PRESIDENCY UNIVERSITY

BENGALURU

Mid - Term Examinations – October 2025

Date: 09-10-2025 **Time:** 09.30am to 11.00am

School: SOE	**Program:** B. Tech (Civil Engineering)	
Course Code : CIV2052	**Course Name:** Integrating SDGs in Civil Engineering	
Semester: V	**Max Marks**: 50	**Weightage**: 25%

CO - Levels	**CO1**	**CO2**	**CO3**	**CO4**	**CO5**
Marks	**19**	**19**	**12**		

Instructions:

(i) Read all questions carefully and answer accordingly.

(ii) Do not write anything on the question paper other than roll number.

Part A

Answer ALL the Questions. Each question carries 2marks. **5Q x 2M=10M**

1	Define Sustainability	**2 Marks**	**L1**	**CO1**
2	List any 2 challenges in implementing sustainable technology across different sectors.	**2 Marks**	**L1**	**CO1**
3	What is Integrated Water Resources Management (IWRM)?	**2 Marks**	**L1**	**CO2**
4	State any two components of clean water and sanitation.	**2 Marks**	**L1**	**CO2**
5	Which SDG goals are directly linked with resilient infrastructure development?	**2 Marks**	**L1**	**CO3**

Part B

Answer the Questions. **Total Marks 40M**

6.	**a.**	Explain all the Sustainable Development Goals (SDGs)	**10 Marks**	**L2**	**CO1**
		Or			

7.	**a.**	Explain the key measures adopted to achieve sustainable development.	**5 Marks**	**L2**	**CO1**
	b.	Explain the nexus between technology and sustainability, emphasizing how technology can drive sustainable practices.	**5 Marks**	**L2**	**CO1**

8.	**a.**	Explain Singapore's Four National Taps strategy and evaluate its achievements and challenges.	**10 Marks**	**L3**	**CO2**
	b.	Summarize the advantages and disadvantages of industrial civilization and consumerism.	**5 Marks**	**L2**	**CO1**
		Or			
9.	**a.**	Explain the evolution of sustainable water and sanitation management, analyzing the transition from early civilizations to modern integrated approaches with examples.	**10 Marks**	**L3**	**CO2**
	b.	Elaborate the economic, social, and environmental matrix for food, water and energy need	**5 Marks**	**L2**	**CO1**

10.	**a.**	Evaluate the challenges in developing resilient infrastructures in India. Suggest possible solutions.	**10 Marks**	**L3**	**CO3**
	b.	Explain how SCADA systems are used in water supply and sanitation management.	**5 Marks**	**L2**	**CO2**
		Or			
11.	**a.**	Explain the key components of resilient infrastructure with suitable examples.	**10 Marks**	**L2**	**CO3**
	b.	Describe the AMRUT Mission in India	**5 Marks**	**L2**	**CO2**