Roll No.												

PRESIDENCY UNIVERSITY

BENGALURU

Mid - Term Examinations – MARCH 2026

Date: 11-03-2026 **Time:** 02:00pm – 03:30pm

School: SOCSE/ SOIS	**Program:** B. Tech (Chemistry cycles)	
Course Code: CIV1200	**Course Name:** Foundations of Integrated Engineering	
Semester: II	**Max Marks**: 50	**Weightage**: 25%

CO - Levels	**CO1**	**CO2**	**CO3**	**CO4**	**CO5**
Marks	**16**	**34**	**-**	**-**	**-**

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	List the various methods used to support creative thinking and idea generation.	**2 Marks**	**L1**	**CO1**
2	Write the definition of Force and moment of force.	**2 Marks**	**L1**	**CO1**
3	Write the core Contributions of Civil and Mechanical Engineering.	**2 Marks**	**L1**	**CO1**
4	List any two engineering activities that have an impact on the environment.	**2 Marks**	**L1**	**CO2**
5	What is meant by Inclusive Design?	**2 Marks**	**L1**	**CO2**

Part B

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

6.	**a.**	Classify the different Force systems.	**10 Marks**	**L2**	**CO1**
		Or			

7.	**a.**	With the help of an example, explain the SCAMPER method, which can be used to stimulate creative solutions to challenging problems	**10 Marks**	**L2**	**CO1**

8.	**a.**	Explain the ethical responsibilities of engineers and also discuss about the professional conduct and duties that engineers should follow to adhere to ethical practices.	**10 Marks**	**L2**	**CO2**
		Or			
9.	**a.**	Discuss about the common ethical dilemmas faced by engineers.	**10 Marks**	**L2**	**CO2**

10.	**a.**	Discuss the role of modern technologies in environmental mitigation, with reference to pollution control methods and clean technology solutions.	**10 Marks**	**L2**	**CO2**
		Or			
11.	**a.**	Classify Stakeholders and explain the process of Identifying & analyzing Stakeholders in an Engineering Project.	**10 Marks**	**L2**	**CO2**

12.	**a.**	Explain the different phases in project budgeting process & Cost Estimation.	**10 Marks**	**L2**	**CO2**
		Or			
13.	**a.**	Compute the Performance metrics as per Earned Value Management for the following project scenario. A software company is working on a project to develop a mobile app for a client. The total project budget is ₹1,00,000 and scheduled duration is 10 weeks. At the end of week 4, the project manager wants to evaluate progress and observe the following: • Actual completed work = 30% of total project • Real expenses incurred by week 4 = ₹50,000	**10 Marks**	**L2**	**CO2**