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PRESIDENCY UNIVERSITY

BENGALURU

Mid - Term Examinations – October 2025

Date: 09-10-2025

Time: 02.00pm to 03.30pm

School: SOCSE / SOE	Program: B. Tech. (CSE / CIV / ECE / EEE / MEC / PET / VLSI)	
Course Code: CIV1200	Course Name: Foundations of Integrated Engineering	
Semester: I	Max Marks: 50	Weightage: 25%

CO - Levels	CO1	CO2
Marks	50	-

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

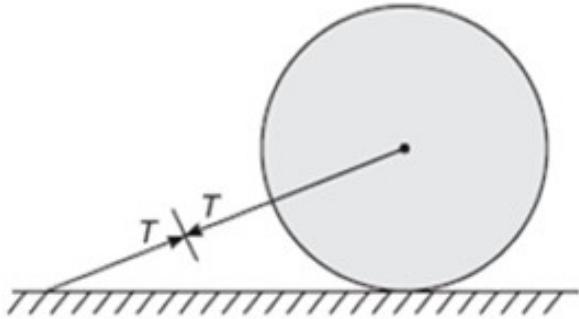
1	List any two engineering activities that have an impact on the environment	2 Marks	L1	CO1
2	Define Equity and Equality.	2 Marks	L2	CO1
3	Write the core Contributions of below mentioned Engineering Domains a) Computer Science b) Mechanical Engineering	2 Marks	L1	CO1
4	Define Equilibrium. For a coplanar concurrent force system, list the conditions of equilibrium	2 Marks	L1	CO1
5	Define Criteria along with an example.	2 Marks	L1	CO1

Part B

Answer the Questions.

Total Marks 40M

6.	a.	Classify Different Force systems.	10 Marks	L2	CO1
Or					
7.	a.	List the steps to draw Free body Diagram. Draw the FBD for the problem shown in figure below.	10 Marks	L2	CO1



8.	a.	With the help of a flowchart, explain the ethical decision-making framework.	10 Marks	L2	CO1
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Or

9.	a.	Discuss the Implications of Unethical Conduct.	10 Marks	L2	CO1
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10.	a.	List any four idea generation techniques and explain any one idea generation technique in detail.	10 Marks	L2	CO1
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Or

11.	a.	Explain (i) SCAMPER and (ii) Design thinking Process.	10 Marks	L2	CO1
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12.	a.	The engineering problem-solving cycle is a structured methodology designed to transform abstract problems into concrete solutions. Explain the step-by-step problem-solving methodology.	10 Marks	L2	CO1
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Or

13.	a.	Discuss in detail about Environmental Monitoring Technologies.	10 Marks	L2	CO1
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