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PRESIDENCY UNIVERSITY

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Presidency University Act, 2013 of the Karnataka Act No. 41 of 2013 | Established under Section 2(f) of UGC Act, 1956
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Bengaluru

Mid Term Examinations - October 2026

Date: 06/10/2026 **Time:** 02:00 PM - 03:30 PM

Course Code: CIV1200 **Course Name:** Foundations of Integrated Engineering

Semester: First Semester **Max. Marks:** 50 **Weightage:** 50%

CO - Levels	CO1	CO2	CO3
Marks	8	164	8

PART A: Answer Following Questions. 10 M

Q.N.	Questions	M	CO	BT
1	List barriers to creativity.	2	CO1	BT1
2	List the four widely used Idea Generation Techniques.	2	CO1	BT1
3	Define Ethics.	2	CO2	BT1
4	Define sustainability as per the Brundtland Commission (1987).	2	CO3	BT1
5	List the 3 Pillars of Sustainability.	2	CO3	BT1

PART B : Answer Any 1 Following Questions. 10 M

Q.N.	Questions	M	CO	BT
6	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: i. Actual completed work = 30% of total project, ii. Real expenses incurred by week 4 = ₹50,000	10	CO2	BT3
7	A company is installing a new automation control system in a manufacturing plant. The total project budget is ₹6,00,000, and the planned duration is 12 weeks. After 6 weeks, it is observed that only 45% of the work is completed and the actual expenses till week 6 is ₹2,80,000. Compute: PV, EV, AC, SV, CV, SPI, CPI and comment.	10	CO2	BT3

PART C: Answer Any 1 Following Questions. 15 M

Q.N.	Questions	M	CO	BT
8	a. Explain the importance of creativity in engineering. b. Explain the SCAMPER Method with an example	15	CO2	BT2
9	a. Explain Ethical Decision-Making Frameworks. b. Describe the ethical responsibilities of engineers.	15	CO2	BT2

PARTD: Answer Any 1 Following Questions. 15 M

Q.N.	Questions	M	CO	BT
10	Classify stakeholders and explain the reasons for addressing stakeholder needs in engineering projects. Also, explain the process of identifying & analyzing stakeholders in an engineering project	15	CO2	BT2

11	Explain Community Engagement and Its Benefits. Also, explain the inclusive design and its principles.	15	CO2	BT2