2. SURPRIZE WRITTEN TEST

Subject: Strength Of Materials (SOM)

Subject Code: BCV301

Sem & Sec: 3rd, Section: A

Objective: To involve students to understand and learn the concept effectively.

Topics Covered: Torsion of Shafts, Bending and shear stresses in beams, deflection in beams

Conduction Date: 28th November 2024.

Course faculty: Dr. SHASHI KUMAR A, Associate Professor, CED.

Description: Surprise Written test is one of the assessment methods that describe the

following:

- ❖ Announced a "surprise test" to students to reduce anxiety while still encouraging consistent preparation.
- ❖ Students were given individual descriptive question randomly.
- ❖ Ten-minute time given to answer the question.
- ❖ Answers scripts were evaluated by course coordinator.
- ❖ Highest marks scorer and the student who is first to solve was complimented.

Outcomes:

- 1. Reinforced Learning:
- Surprise tests can encourage students to stay consistently engaged with course material, fostering continuous learning rather than cramming.
- **2.** Identification of Knowledge Gaps:
- These tests help both students and instructors identify weak areas in understanding, enabling targeted improvement.
- **3.** Improved Time Management:
- Students who experience surprise tests may learn to allocate their study time more effectively across subjects.
- **4.** Encouragement for Regular Study:
- o The possibility of surprise tests can motivate students to regularly review and stay up-to-date with the curriculum.
- **5.** Critical Thinking under Pressure:
- o Surprise tests often assess problem-solving skills and adaptability, which are crucial in engineering.

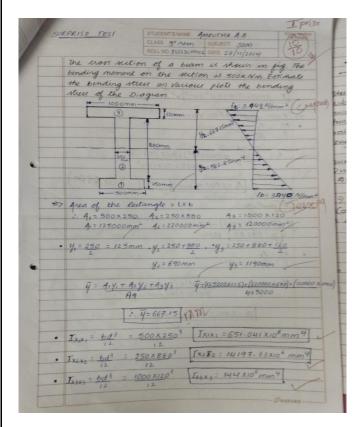
Winner Group: Amrutha A B (1SJ23CV002) and Hemanth G (1SJ23CV013) won the prize

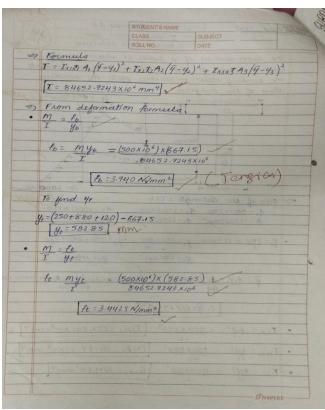
To fill Curriculum Gap, the CO attained are:

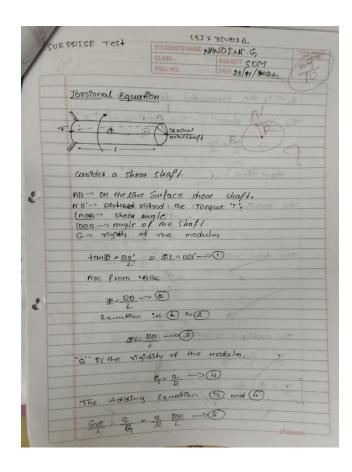
CO3: Determine the torsion in circular shafts

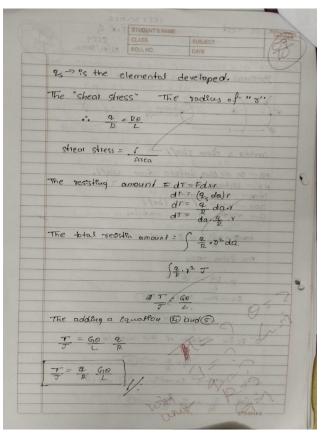
CO4: Determine the shear & bending stresses of the beams & the buckling load for columns and struts by Euler's Theory and by Rankine's-Gordons formula for columns

SAMPLE COPY OF ANSWER SCRIPTS OF "SURPRIZE WRITTEN TEST ACTIVITY"









UR	TEST STUDENTS NAME HEMANTH TOTALS CRAFT SUBJECT SOM PROLEND 18572364013 DATE
=>	Both Ends of the Column are fixed The Two fixed point of the column Lx AB + Two fixed point of the column To considered bulking of
	A Distance blue A and B P + Bulkking pressure y + Lateral displacement
	Moment about 'C' Me: Mo-Py
	EId2y = Me EId2y = Me EId2y = Mo-Py EId2y = Mo-Py
	$\frac{d^{2}y}{dx^{2}} = \frac{Me - Py}{ET}$ $\frac{d^{2}y}{dx^{2}} + \frac{P}{ET} = \frac{Me}{ET}$
	The general solv, for this differential of y = C, Cos (or VEF) + C, Sin (x VEF) + MO/P
	dy = - CIVET . Sin (xVET) + COVET CON (xVE)

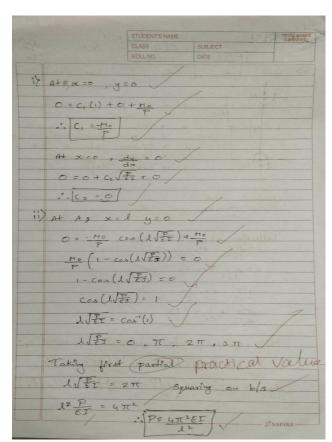


PHOTO GALLARY OF SURPRISE TEST ACTIVITY







