

ASSIGNMENT-2

BRANCH-MECHANICAL ENGINEERING

SUBJECT- APPLIED MECHANICS

CHAPTER-CENTRE OF GRAVITY

SHORT ANSWER TYPE QUESTIONS

Q1. Define Centre of Gravity

Q2. Define Centroid

Q3. Define Centroidal Axis

Q4. Define Axis of Reference

Q5. Define Axis of Symmetry

Q6. Define Gravitational Force

Q7. Give value of Gravitational Force G

LONG ANSWER TYPE QUESTIONS

Q8. Explain method of determining Centroid by using moment method

Q9. Differentiate between Centroid and Centre of Gravity

Q10. Find the centre of gravity of a T-section with Flange 15 cm x 2.5 cm and Web 17.5 cm x 2 cm

Q11. Find the centre of gravity of a channel section 100 x 50 x 15 mm

Q12. Find the centroid of an I-section having top Flange 10 x 2 cm, Web 10x 2 cm and bottom Flange 20 x 2 cm