

V.S.B. ENGINEERING COLLEGE, KARUR-639 111
DEPARTMENT OF MECHANICAL ENGINEERING
GE 6253-ENGINEERING MECHANICS

Year/Semester & Branch: I/II - Mechanical Engineering “ B ” Section
Faculty Name: V.Ragavan

Max.Marks:20

Part - A Answer ALL Questions (5×2=10 Marks)

1. State Newton's second law of motion.
2. What are the types of supports and loads?
3. State the principle of Resolution.
4. Differentiate between resultant and equilibrium.
5. Draw the support reactions for hinged, pinned and roller supports.

Part - B Answer ALL Questions (2×5=10 Marks)

1. write the expressions to find the co-ordinates of centroid of plane figures by integration for Right angled triangle?
2. Members OA, OB and OC form a three member space truss. A weight of 10 kN is suspended at the joint 'O' as shown in fig. Determine the magnitude and nature of forces in each of the three members of the truss.


