SNS COLLEGE OF ENGINEERING<br>Kurumbapalayam (Po), Coimbatore - 641107<br>Accredited by NAAC-UGC with 'A' Grade<br>Approved by AICTE \& Affiliated to Anna University, Chennai

GE8292-ENGINEERING MECHANICS

## TUTORIAL-1

1. 

A man of 80 kg is supported by two cable as shown the tension ratio of $T_{1}: T_{2}$ is


1) $1: \sqrt{3}$
2) $\sqrt{3}: 1$
3) $1: 1$
4) $2: 1$
2. A signal pendant weighing 80 N is supported by two cables as shown in figure. Determine the tensions $\mathrm{T}_{1}$ and $\mathrm{T}_{2}$ in the cables

3. Two loads of 30 N and $\mathrm{W}_{\mathrm{F}}$ are hung by a set of wire ropes as shown in figure. Determine the tensions in the wire ropes $A B, B C$ and $C D$. Also determine the unknown weight $W_{F}$ hung at the point $B$.

