## SNS COLLEGE OF TECHNOLOGY

(An Autonomous Institution)



## **Department of Mechatronics Engineering**

from varisnan's Theorem.

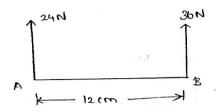
Sum of the moment of the forces FII be and for about "O" is equal to the moment of regulant force R, about the same Point "o"

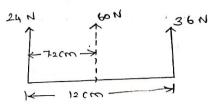
1.e Fidi + Ed2 +8383 = R.d.

Sum of the moment of ? ? Smoment at their resultant like Forces about a point? ? (wice about the same point.) all the Forces about a point

: w319018

Find the regulant Force by the Panallel brice system shown in Fig.





: nlo2

Magnitude a me resultant force, R= 24 +36=60N.

The above system is like Parallel force system. (as they act in same direction). Hence the resultant Force will be in

between the given forces.

where as unlike paramed force system, the resultant force will be eather in between the given forces a outside.

Location of resultant force.

Alservic Sun or the moment about A

Ema = (24 x0) - (36x12) (-re sign for anticlockwise

Emp = -432 N-Cm.

But manent or resultant lonce about

A = 2 MA

Rx = 432 N-cm

60x = 482

X = 7.200