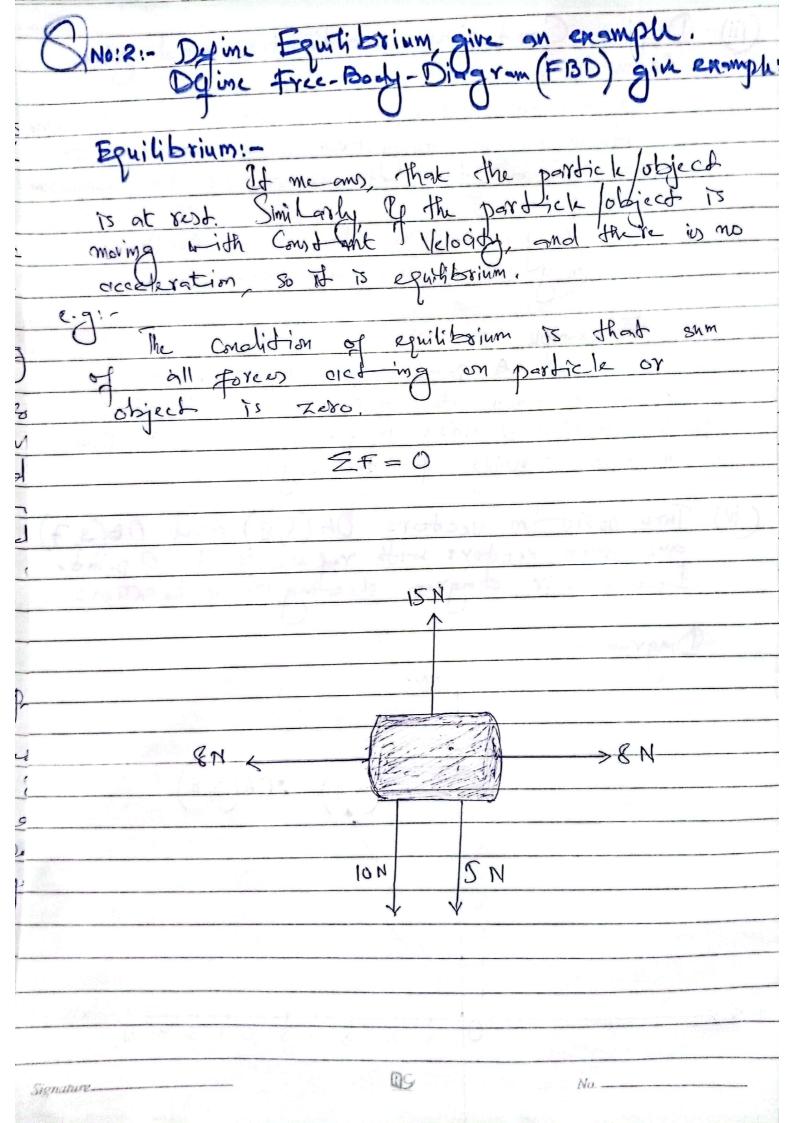
NAME: MADSOOD SHMED ID: 38186 DEPT: BS(Cs) DSSIGNMENT #63" No:- I:-Describe how Force vectors are defines represented. Give example. A quantity that has both magnisticle and direction. Alt is defined as quantities that mepresents a push or pull on an object.
They are characterized by their magnitude
direction, and point of application. Magnitudez-It is a force vector represents the strongth or intensity of the force 16 75 measured by Newton (N) or pounds (lb) => Direction:-It is the free vector indicates the line along which the force is applied. The direction could be (South, morth, east, west

ADDE BAM : AMA => Arrow Represent ations Force yectors are typically represented graphically using arrows. (ii) Define what is a Position vectors? Caive A position vector is a mathematical concept the position at a point in spoice. Whative to a memore point or oxigm. I let's consider two dimensional cartesian system. The position record of a form E (only) relative to the origin O(0,0) can Y= xi+ At Here i and i are the unit vectors x-axis -axis, respectively. The position vector "r" medicates
that the point is boanted x units along the a axis and yourists, along the youris, from the origin O. The Coefficient a and y represents the components of the position vector in the x. and I directions respectively.

For mst ance, If P(3,4) is a point in the coordinate system the position vector would be Y=3i+4j P is located 3-units along the x-axis and 4-units along the y-axist from the

Define Cartesian coordinates and give Cartésian Goordinates also known Points in a two dimensional or three dimensional Thro-dimensional Coordinates. A point representing on sporce Could have the coordinates (2,-, and 4 units from the origin Two position vectors DA (5,8) a are given rectors with reference Drap Other diagram showing the Draw Other diggram showing Jiggram:-91-9XIS 8 C 5 4 DG Menanire.



Mountain