HOME WORK

- Q-1 Find Unit Vactor along \overline{AB} it A = (-2, -1, 3) and B = (1, 1, 0),
- 0-2 It $\bar{a} = (3, -2, 1)$ and $\bar{b} = (-1, 1, 2)$ then find
 - (i) a. b (ii) |a.b| (iii) a +b
 - Q-3 If $\overline{a} = (2,1,-1)$ and $\overline{b} = (3,-6,2)$ then find (i) $\overline{a} \times \overline{b}$ (ii) $|\overline{a} \overline{b}|$
- Q-H It $\overline{a} = (3, H, O)$ and $\overline{b} = (0, 2, -5)$ then find (i) $3\overline{a}$ (ii) $H\overline{a} 3\overline{b}$ (iii) $|\overline{a} \times \overline{b}|$
- 0-5 Find Unit vector along \overline{AB} if A = (-4, -7, 1) and B = (1, -6, 2).
- 0-6 Find Choss Phoduct of Vectors $\overline{a} = (3,-3,1)^{und} \overline{b} = (4,9,2)$.
- Q-7 It $\overline{Q}=(-1,2,3)$, $\overline{B}=(3,-2,-5)$ and $\overline{C}=(6,2,-2)$ then find
 - (i) 0+5 (ii) 0.0 (iii) 5. (0+0) (iv) 5 x 0
 - (V) 3(5-c) (Vi) 10 x a1 (Vii) 15. a1
- 0-8 Find Vector Addition and Dot Product: A = (3, -3, 1) and B = (4, 9, 2)

0-9 It $\bar{a} = (-2,3,5)$, $\bar{b} = (3,-1,2)$ and $\bar{c} = (7,1,-1)$ then find (i) $\bar{a} + \bar{b}$ (ii) $\bar{a} \cdot \bar{c}$ (iii) $\bar{b} \cdot (\bar{a} + \bar{c})$ (iv) $\bar{b} \times \bar{c}$ (v) $3(\bar{b} - \bar{c})$ (vi) $1\bar{c} \times \bar{a}$) (vii) $1\bar{b} \cdot \bar{a}1$

Q-10 Find Unit Vector along \overrightarrow{AB} it A = (-2,0,5) and B = (H,-1,3)

Q-11 Find dot Product of Vectors C2,1,0) and (1,413)
Q-12 Write down the Properties of Vector addition.

(i) Magnitude of a Vector

(ii) Unit Vector

(iii) Dot Product of Vectors

(iv) Vector Addition

(v) Cross Product