KQS COACHING CENTER

|Date: _____||Class: XI | | Paper: Physics | | Time: 30 minutes | |Max. Marks: 25 | |Test # 2|

|NAME:_____ | |F.NAME:_____|

Q1: Define unit and position vector.

Q2: If $\vec{A} = 2\hat{\imath} + 3\hat{\jmath} - 4\hat{k}$, $\vec{B} = 3\hat{\imath} - 4\hat{\jmath} + 2\hat{k}$ *and* $\vec{C} = -4\hat{\imath} + 2\hat{\jmath} + 2\hat{k}$ then find $|4\vec{A} - 2\vec{B} + 4\vec{C}|$.

Q3: Two tugboats are towing a ship, each exert a force of 6000N and the angle between the two ropes is 60° calculate the resultant force on the ship.

Q4: The position vectors of point P and Q are $\vec{r}_1 = 2\hat{\imath} + 3\hat{\jmath} - \hat{k}$ $\vec{r}_2 = 4\hat{\imath} - 3\hat{\jmath} + 2\hat{k}$ find $\overrightarrow{PQ}$.

Q5: If one of the rectangular components of force 50N is 25N, find the value of other.

25

Prepared by: Sir Hasnain Contact #: 03312189275 Email address: Hasnainkhankqs@gmail.com

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