

VECTOR ANALYSIS

- The physical quantity which is completely specified by both its magnitude and direction is called:
 (a) vector (b) scalar (c) variable (d) constant
- An example of vector quantity is:
 (a) distance (b) power (c) energy (d) torque
- If two vectors $\vec{A}$ and $\vec{B}$ have same magnitude and direction then
 (a) $\vec{A} - \vec{B} = 0$ (b) $\vec{A} + \vec{B} = 0$ (c) $\vec{A} \neq \vec{B}$ (d) $\vec{A} = 2\vec{B}$
- $\vec{A} =$
 (a) $\lambda\vec{A}$ (b) $\frac{\vec{A}}{\lambda}$ (c) $\frac{\vec{A}}{\lambda}$ (d) $\frac{\vec{A}}{\lambda\lambda}$
- Unit vector along y-axis:
 (a) $\hat{i}$ (b) $\hat{j}$ (c) $\hat{k}$ (d) none of these
- The position vector of any point in space is $\vec{r} =$
 (a) $x\hat{i} + y\hat{j}$ (b) $y\hat{j} + z\hat{k}$ (c) $x\hat{i} + z\hat{k}$ (d) $x\hat{i} + y\hat{j} + z\hat{k}$
- If 1 and $\sqrt{3}$ are the x and y components of a vector, then its angle with x-axis is:
 (a) 30° (b) 45° (c) 60° (d) 90°
- Find the norm of $\left(-\frac{3}{2}\right)\hat{i} - \left(-\frac{4}{2}\right)\hat{j} + 6\hat{k}$.
 (a) 27 (b) $\sqrt{27}$ (c) 37 (d) $\sqrt{37}$
- The projection of $\vec{B}$ on $\vec{A}$ is
 (a) $\frac{\vec{A}\vec{B}}{A}$ (b) $\frac{\vec{A}\vec{B}}{B}$ (c) $\frac{\vec{A}\vec{B}}{AB}$ (d) $\vec{A} \cdot \vec{B}$
- The projection of $\vec{A}$ on $\vec{B}$ is
 (a) $\frac{\vec{A}\vec{B}}{A}$ (b) $\frac{\vec{A}\vec{B}}{B}$ (c) $\frac{\vec{A}\vec{B}}{AB}$ (d) $\vec{A} \cdot \vec{B}$
- The angle between the vectors $\hat{i} + 3\hat{j} - 2\hat{k}$ and $\hat{i} - \hat{j} - \hat{k}$ is
 (a) 30° (b) 45° (c) 60° (d) 90°
- If the vectors $x\hat{i} - 2\hat{j} + \hat{k}$ and $2x\hat{i} + x\hat{j} - 4\hat{k}$ are perpendicular, then $x =$
 (a) 2, -1 (b) 2, 1 (c) -2, 1 (d) -2, -1
- If the vectors $3\hat{i} + 6\hat{j} + \hat{k}$, $\hat{i} - m\hat{j} + \frac{1}{3}\hat{k}$ are parallel, then $m =$
 (a) -3 (b) 3 (c) -2 (d) 2
- The vectors intersecting at a single point are called:
 (a) parallel vectors (b) concurrent vectors
 (c) collinear vectors (d) non-coplanar vectors

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