

ECAT Physics Chapter 2 Vectors and Equilibrium

Sr	Questions	Answers Choice
Si	Questions	
1	The perpendicular distance from the axis of rotation to the line of action of force is called:	A. Moment arm B. Moment of a force C. Torque D. Non of these
2	By convention, torques producing clockwise rotation are taken as:	A. Positive B. Nagative C. Zero D. None of these
3	Choose the set of physical quantities, which have both numerical and directional properties:	A. Velocity, mass B. Speed, acceleration C. acceleration weight D. Distance, force
4	An vector of 10 N makes an angle of 45° with x-axis. Angle between its rectangular components with be:	A. 45 B. 90 < D. Zero
5	Which of the following is scalar quantity?	A. Electric potential B. Velocity C. Momentum D. Force
6	A force of 5 n is acting Y-axis. Its component along X-axis is:	A. 7 N B. 5 N C. Zero D. 10 N
7	Two forces of 10 N and 8 N are applied simultaneously to a body. the maximum value of their resultant is:	A. 2 N B 2 N C. 18 N D. 36 N
8	Tick the correct answer:	A. Torque is a vector quantity B. Torque is the turning effect of a force C. Torque is called moment of a force D. All of above
9	Two vectors having different magnitudes:	A. Have their directions opposite B. May have their resultant zero C. Cannot have their resultant zero D. None of these
10	The vector in space has:	A. One component B. Two components C. Three components D. None of these

11	The vector is space has:	A. One Component B. Two Components C. Three Components D. Non of these
12	When a vector is multiplied by a negative number, its direction:	A. Remains the same B. Changes C. Changes by 180 <span 10.5pt;="" 107%;="" arial,="" background-attachment:="" background-clip:="" background-image:="" background-origin:="" background-position:="" background-repeat:="" font-family:="" font-size:="" initial;="" initial;"="" line-height:="" sans-serif;="" style="font-size: 10.5pt; line-height: 107%; font-family: Arial, sans-serif; background-image: initial; background-position: initial; background-repeat: initial; background-attachment: initial; background-origin: initial; background-origin: initial; background-clip: initial; background-clip: initial; background-clip: None of these</td></tr><tr><td>13</td><td>The direction of vector in space is specified by:</td><td>A. One angle B. Two angles C. Three angles D. None of these</td></tr><tr><td>14</td><td>Unit vector is used to specify:</td><td>A. Magnitude of a vector B. Dimensions of a vector C. Direction of a vector D. Position of a vector</td></tr><tr><td>15</td><td>The magnitude of the resultant of two forces may be increased by:</td><td>A. Increasing the angle between them B. Decreasing the angle between them C. Drawing a triangle to represent them D. None of these</td></tr><tr><td>16</td><td>The rectangular components of a vector are equal in magnitude when the vector makes and anglewith their x-component:</td><td>A. 0° B. 30

