

ECAT Pre General Science Online Test

Sr	Questions	Answers Choice	
1	Centripetal acceleration is also called acceleration:	A. Tangential B. Radial C. Angular D. None of them	
2	Direction of motion in circular of motion:	A. Changes off and on B. Changes continuously C. Does not change D. None of them	
3	Conventionally the angular velocity is directed to an angle of:	A. 90 <span and="" are:<="" earth="" from="" receive="" satellites="" signals="" stations"="" 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-origin: initial; background-lip: initial; background-origin: initial; background-size: 10.5pt; line-height: 107%; font-family: Arial, sans-serif; background-image: initial; background-size: initial; background-repeat: initial; background-attachment: initial; background-origin: initial; background-origin: initial; background-origin: initial; background-origin: initial; background-size: initial; background-origin: initial; background-position: initial; background-position: initial; background-position: initial; background-attachment: initial; background-origin: init</th></tr><tr><td>4</td><td>A point on the rim of a wheel moves 0.2 m when the wheel turns through an angle of 14.3 degrees. The radius of the wheel is:</td><td>A. 0.05 m
B. 0.08 m
C. 0.8 m
D. 0.008 m</td></tr><tr><td>5</td><td>Einstein's theory about gravity if better than Newton's because it gave explanation of:</td><td>A. Inverse square law B. Bending of light C. Both A and B D. None of above</td></tr><tr><td>6</td><td>INTELSAT operates at frequencies 4, 6, 11, 14 having unit of:</td><td>A. KHz
B. MHz
C. GHz
D. BHz</td></tr><tr><td>7</td><td>The number of " td="" them="" to="" transmit="" which=""><td>A. 3 B. 24 C. 126 D. 200</td>	A. 3 B. 24 C. 126 D. 200
8	The net force acting on a 100 kg man standing in an elevator accelerating downward with a = 0.8 m sec ⁻² comes out to:	A. 980 N B. 580 N C. 1380 N D. Zero	
9	If a gymnast is sitting on a rotating stool with his arms outstretched, brings his arms towards the chest, then its angular velocity will:	A. Increase B. Decrease C. Remains constant D. None of these	
		A. 90	

10	Conventional the angular Velocity is Directed at an angle of:	background-position: initial; background-size: initial; background-repeat: initial; background-attachment: initial; background-origin: initial; background-clip: initial;">° to the axis of rotation B. 30 ° to the axis of rotation C. 0 ° to the axis of rotation
11	The work done on the body will be zero if:	A. No force is applied on the body B. Force is applied but no displacement C. Angle between F(force) and d(displacement) is 90 ° D. All of these are correct
12	A boy pulls a toy car through a distance of 5 m by applying a force of 0.5 N, which makes and angle of 60° with the horizontal. The work done by the boy is:	A. 1.25 J B. 12.5 J C. 125 J D. None of these
13	If we draw a graph between d (along x-axis) and F (along y-axis) and get a straight line horizontal to x-axis, then area under this straight line represents:	A. Power B. Work C. Pressure D. None of these
14	When a wall is pushed by a person very strongly, he has done:	A. Maximum work B. Zero work C. Positive work D. Negative work
15	The work done by a force keeping an object in circular motion with constant speed is:	A. Zero J. B. 0.1 J C. 1 J D. 0.01 J
16	Which force is not a conservative force:	A. Frictional force B. Gravitational force C. Electric force D. Elastic spring force
17	A labourer carrying a distance a load on his head moves from rest on a horizontal road to another point where he comes to rest. He has done:`	A. Minimum work B. <div>Maximum work</div> C. Zero work D. Negative work
•	A body moves a distance of 10 m among a straight line under the action of a force of 5 N. If	A. 0 " B. 30 "

18	the work done is 25 J, the angle which the force makes with the direction of motion of a body is:	C. 60 ° D. 90 °
19	A 100 Kg car is moving at the speed of 10 m/sec and comes to rest after covering a distance of 50 m. The amount of work done against the friction is:	A. +5 X 10 ¹ J B. +5 X 10 ² J C. +5 X 10 ³ J D. +5 X 10 ⁴ J
20	The total work done in moving the body up and then down through the same height in a gravitational field is equal to:	A. mgh B. Its wight C. Weight X height D. Zero
21	When the body is moves against the force of friction on a horizontal plane, the work done by the body is:	A. Positive B. Negative C. Zero D. None of these
22	In the force applied is parallel to the direction of motion, then work done is:	A. Maximum B. Minimum C. Zero D. None of these
23	A two Kg block is held 1 m above the floor for 50 seconds, the work done is:	A. Zero B. 10.2 J C. 100 J D. 980 J
24	Work done is lowering the bucket into the well is:	A. Zero B. Positive C. Negative D. None of these
25	The angle between centripetal force and displacement of the body moving in a circle is:	A. 0 ° B. 90 ° C. 180

28	The field in which work done in moving a body between two points depends upon the path followed is called:	Non-conservative field Electric field None of these
29	A body moves a distance of 10 m along a straight line under the action of a force of 5 N and work done is 25J. The angle which the force makes the direction of motion will be:	A. 60

A. Conservative field