

ECAT Pre General Science Online Test

Sr	Questions	Answers Choice
1	Work done is maximum when angle between force and displacement is:	A. 0

11	Bodies which falls freely under gravity provides good example of motion under:	B. Non-uniform acceleration C. Uniform velocity D. None of these
12	Swimming becomes possible because oflaw of motion:	A. First B. Second C. Third D. None of these
13	A dirty carpet is to be cleaned by heating. This is an accordance with law of motion:	A. First B. Second C. Third D. None of these
14	A certain force gives an acceleration of 2 m/sec2 to a body if mass 5 kg. The same force would give a 29 kg object an acceleration of:	A. 0.5 m/sec2 B. 5 m/sec2 C. 1.5 m/sec2 D. 9.8 m/sec2
15	Slope of velocity-time graph represents:	A. Acceleration B. Speed C. Torque D. Work
16	In the above figures, tell which set is graphs shows that a body is moving uniform velocity:	A. (i) and (ii) B. (ii) and (iii) C. (i) and (iii) D. (ii) and (iv)
17	If the velocity time graph is a straight line parallel to time-axis, then it means that:	A. The body is moving with uniform velocity B. The body is moving with uniform acceleration C. The body is at rest D. None of above
18	The magnitude of the force producing an acceleration of 10 m/sec2 in a body of mass 500 grams is:	A. 3 N B. 4 N C. 5 N D. 6 N
19	A body is moving with constant velocity of 10 m/sec in the north east direction. Then its acceleration will be:	A. 10 m/sec2 B. 20 m/sec2 C. 30 m/sec2 D. Zero
20	A body of mass 5 kg is acted upon by a total change n momentum will be:	A. 10 NS B. 100 NS C. 140 NS D. 200 NS
21	When brakes are applied to a fast moving car, the passengers will be thrown:	A. Forward B. Backward C. Downward D. None of these
22	Which one of the following is dimensionless.	A. Acceleration B. Velocity C. Density D. Angle
23	The dimension of linear inertia is:	A. MLT ² B. ML T⁻² C. ML°T°T°T°T

A. Unitorm acceleration

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24	A ball is dropped from a height of 4.2 meters. To what height will take it rise if there is no loss of KE after rebounding?	A. 4.2 m B. 8.4 m C. 12.6 m D. none of these
25	A body moving with an acceleration of 5 m/sec ² started with velocity of 10 m/sec. What will be the distance traversed in 10 seconds?	A. 150 m B. 250 m C. 350 m D. 400 m
26	The shortest distance between two points directed from its initial point to final point is called:	A. Velocity B. Displacement C. Speed D. Distance
27	Ethanol (alcohol) as a type of:	A. Electric fuel B. Bio fuel C. Nuclear fuel D. None of these
28	Root out of the conventional source of energy:	A. Energy from biomass B. Hydroelectric energy C. Geothermal energy D. None of these
29	Biomass includes:	A. Crop residue B. Natural vegetation C. Animal dung D. All of these
30	The consumption of energy by a 1000 watt heter in half an hour is:	A. 5 Kwh B. 0.5 Kwh C. 2.5 Kwh D. 3.2 Kwh