Physics ICS Part 1 Chapter 4 Online Test

Sr	Questions	Answers Choice
1	A dry battery cna deliver 3000 J of energy to a 2 W small electric motor befor the battery is exhausted.For how many minutes does the battery run.?	A. 1500 min B. 100 min C. 25 min D. 50 min
2	A force of 10 N is rquirired to overcome road friction and air resistanc in propelling an automobile at 30 m/sec. power develped by the engine.	A. 600 W B. 400 W C. 300 W D. 500 W
3	Escape velocity depends upon.	A. Mass of the body B. Radius of the body C. Radius of the planet D. Radius of the Earth
4	Gravity performs zero work when body moves	A. Vertically B. Horizontally C. At 60% with vertical D. At 45% with horizontal
5	A1 kg mass has potential energy of 1 joule relative to the ground when it is at a height of.	A. 0.102 m B. 1 m C. 9.8 m D. 32 m
6	Kilowatt hour is unit is.	A. Power B. Work C. Force D. Momentum
7	The dimension of power	A. [ML2 T-3] B. [ML-1T-1] C. [ML2T2] D. [ML-2T-4]
8	1 kilowatt is equal =	A. 1000 J /s B. 106 watt C. 0.1 x 10³ Watt D. 6.25 x 10 ^{25 Watt}
9	When the force is parallel to the direction of motionof the body the work done is.	A. Minimum B. Maximum C. Infinity D. Zero
10	When a ball is thrown vertically upward and then falls back to the ground, which force can be considered conservative in this scenario.	A. Air resistance B. Gravity C. Friction betwene ball and air D. Contant force with hand
11	If P= Pressure, delta V = change in volume, P delta V represents.	A. Density B. Work C. Teperature D. Power
12	If P = pressure, Deltat V = change in volume, P Delta V represents	A. Work B. Density C. Power D. Temperature
13	Two bodies A and B of mass 1 kg and 2 kg respectively have same momentum. Which one has greater KE.	A. Cannot be determined B. A C. B D. Both hae the same K.E.
14	If an agent consumes a power of 1 kW in one hour the work done is.	A. One emega watt hour B. One kile watt hour C. One deci watt hour

15	An iron sphere whose mass is 30 kg has the same diameter as an aluminium sphere whose mass is 10.5 kg. The spheres are simultaneously dropped form a cliff. When they are 10 m fromt he gorund, they have identical.	A. Accelerations B. Momentums C. Potential engergies D. Kinetic energies
16	A body of mass 0.2 kg initially moving with velocity 10 m/s comes to rest in 1 m. how much retarding force acts on it.	A. 10 N B. 20 N C. 40 N D. 200 N
17	1 kilowatt is equal=	A. 1000J/S B. 106 Watt C. 0.1 x 10 ²</sup> watt D. 6.25 x 10 ²⁵</sup> J
18	Ratio of dimension of power and K.E. is.	A. 1 : 1 B. T : 1 C. 1 : T D. M : T
19	Th dimension of powr is.	A. [ML2 T-3] B. [ML-1T-1] C. [ML2T2] D. [ML-2T-4]
20	Absolute P.E. of a body of mass"m" at a distance"r" from earth centre is.	A. [-GM/r] B. - Gr/ M C. -Gmr D. GmM /r