Physics ICS Part 1 Chapter 4 Online Test

Sr	Questions	Answers Choice
1	If P = pressure, Deltat V = change in volume, P Delta V represents	A. Work B. Density C. Power D. Temperature
2	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
3	The height above the gound of a child on a swing varies form 0.5 m of his lowest point to 1.5 m at his highst point. The maximum speed of the child is approximatley.	A. 1.5 ms -1 B. 4.4 ms-1 C. 9.8 ms -1 D. Depends upon child's mass
4	Which one of the folloiwng is/are correct.	A. Work is positive if 0< 90^o B. Work is 0 if <m:omathpara><m:omath> <m:r>θ 90^o </m:r></m:omath> </m:omathpara> C. Work is negative if <m:omathpara><m:omath> <m:r>θ 90^o </m:r></m:omath> </m:omathpara> D. All of these
5	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
6	If the velocity of the body becomes double and mass become half thenints K.E.	A. Becomes double B. Beocmes for time C. In halved D. Becomes eight time
7	A man carries a bucket of water of 1 kg for 10m height then work done is.	A. 15 J B. 10 j C. 98 J D. 2.5 J
8	When the force is parallel to the direction of motionof the body the work done is.	A. Minimum B. Maximum C. Infinity D. Zero
9	If a body mass 2 kg is raised verticaly through 2 m then the work done will be.	A. 50 J B. -39.2 J C. 35 J D. 40 J
10	Work done on a body for increasing velocity results in.	A. Change in K.E. B. Change in gravitational P.E. C. Change in electric P.E. D. All
		A. [ML2 T-3] B. [ML-1T-1]

11	The dimension of power	B. [ML-1T-1] C. [ML2T2] D. [ML-2T-4]
12	Kilowatt hour is unit is.	A. Power B. Work C. Force D. Momentum
13	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
14	Gravity performs zero work when body moves	A. Vertically B. Horizontally C. At 60% with vertical D. At 45% with horizontal
15	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
16	A field in which the work done in moving a body along a closed path is zero known as.	A. Conservative field B. Nuclear field C. Magnetic field D. Electric field
17	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.
18	Ratio of dimension of power and K.E. is.	A. 1 : 1 B. T : 1 C. 1 : T D. M : T
19	Power of lamp is 6 W. How much energy does a lamp give out in 2 min?	A. 12 J B. 720 J C. 20 J D. 3 J
20	Which of the following is non conservative force.	A. Elastic spring force B. Electric force C. Gravitational force D. Tension in string