MDCAT Physics Chapter 3 Work ,Energy & Power Online Test

Sr	Questions	Answers Choice
1	A man weighing 500 N carries a load of 10 kg to the top of a building in 4 minutes. The work done by the man is 6 × □□^{4} J. If he carries the same load in 8 minutes, the work done by the man will be:	A. 3 × 10⁴ J B. 6 × 10⁴J C. 9 × 10⁴J D. 12× 10⁴ J
2	In a gravitational field when work done by gravity is negative then	A. P.E increases B. P.E decrease C. None D. P.E remains same
3	A body of mass 3 Kg lies on the surface on the table 2m high. It is moved on the surface by 4m. The change of P.E will be:	A. Zero B. 9.8 J C. 19.6 J D. 329 J
4	If the K.E. of a body is increased by 300%, its momentum will increase by:	A. 100 % B. 150 % C. √300% D. 175 %
5	. A force "F1" acts on a body through distance "S1" in the direction of motion and does work "W1". Similarly another force "F2" act on same body through distance "S2" but in opposite to the direction of motion and does work "W2". Now if F1 = F2 and S1 = S2 then which statement is correct.	A. W1 = W2 B. W2< W2 C. W1 > W2 D. W1 = W2= 0
6	A person weighing 20 mg walks on a level platform with a speed of 2 ms-1 . The work by the person against the force of gravity is:	A. Zero B. 2J C. 60J D. 600J
7	The gravity does no work, when the body moves:	A. Horizontally B. Vertically upwards C. Vertically downward D. At an angle of 45o with horizontal
8	3 joules of work is done in 3 seconds, then power is:	A. 6 watt B. 3 watt C. 18 watt D. 1 watt
9	The same retarding force is applied to stop a train. The train stops after 80 m. If the speed is doubled, then the Stopping distance will be:	A. The same B. Doubled C. Halved D. Four times
10	The energy stored in wound watch spring is	A. K.E. B. P.E. C. heat energy D. chemical energy
11	An elevator's motor produces 3000 W power. The speed With Which it can lift a 1000 kg load is:	A. 30.6ms⁻¹ B. 0.306ms⁻¹ C. 3.06ms⁻¹ D. 300.3ms⁻¹
12	Kinetic energy of a body moving with speed of 10 ms-1 is 30 J. If its speed becomes30 ms-1 then its K.E becomes	A. 10J B. 270 J C. 90J D. 180 J
13	A light and a heavy body have equal momenta. Which one has greater K.E?	A. The light body B. The heavy body C. The K.E are equa D. Data is incomplete
14	The power needed to lift amass of 5000g to height of 1min 2 second is	A. 2.45 watt B. 24.5 watt C. 245 watt D. 2.45 k watt
15	When a person lifts a body from ground work done by lifting force is?	A. Positive B. Negative C. Zero D. Half of positive maximum

16	A force □ = (□□̂+ □□̂) newton is applied over a particle which displaces it from its origin to the point □ = (□□̂− □□̂) meters. The work done on the particle is:	A. – 7 joules B. +13 joules C. + 7 joules D. +11 joules
17	Which of the following work is greater?	A. + 100J B. 0 J C. - 100J D. Both A and B are equal
18	Which of the following is a unit of energy?	A. unit B. whatt C. Horse Power D. None of the above
19	Which of the following types of force can do no work on the particle on which it acts?	A. Frictional force B. Gravitational force C. Elastic force D. Centripetal force
20	A bomb of mass 30 kg at rest explodes into two pieces of masses 18 kg and 12 kg. The velocity of 18 kg mass is 6 ms^{1} The KE of other mass is	A. 324 J B. 256 J C. 245 J D. 524 J