Unit 5

Work, Energy And Power

Sr. No.	Questions	A	В	С	D
1	Work done is maximum when the angle between the force F and the displacement d is:	0° ✓	30°	60°	90°
2	A joule can also be written as:	$kg ms^{-2}$	kg ms⁻¹	$kg m^2 s^{-3}$	$kg m^2 s^{-2} \checkmark$
3	The SI unit of power is:	joule	newton	watt√	second
4	The power of a water pump is 2 kW. The amount of water it can raise in one minute to a height of 5 metres is:	1000 litres	1200 litres	2000 litres	2400 litres ✓
5	A bullet of mass $0.05 kg$ has a speed of $300 ms^{-1}$. Its kinetic energy will be:	2250 J ✓	4500 <i>J</i>	1500 <i>J</i>	1125 <i>J</i>
6	If a car doubles its speed, its kinetic energy will be:	the same	doubled	increased to three times	increased to four times√
7	The energy possessed by a body by virtue of its position is:	kinetic energy	potential energy√	chemical energy	solar energy
8	The magnitude of momentum of an object is doubled, the kinetic energy of the object will:	double	increase to four times√	reduce to one- half	remain the same
9	Which of the following is not renewable energy source?	Hydroelectric energy	Fossil fuels√	Wind energy	Solar energy

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