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1ST YEAR ENTRY TEST SESSION

NAME:			ROLL NO:		TIME:	15: MIN
SUB:	Physics	Date:			CLASS:	1st Year
SYLLABUS	Chp. 4 (Work, Energy and Power) Entry Test MCQs		T. MARKS	8	OBT. M	

Q. 1 Choose the Correct Answer. Cutting, Erasing, Double Selection is Strictly Prohibited. (1x8=8)

1. **A particle p moving with kinetic energy E and momentum p makes a head-on collision with a identical particle Q which is initially at rest. Both particles stick together. Which one of the following rows correctly represents the kinetic energy and magnitude of the momentum after the collision?**

	Kinetic energy		Magnitude of momentum	
	Of Q	Of system	Of Q	Of system
(A)	0	E	0	P
(B)	E/4	E/2	p/4	p/2
(C)	E/4	E/2	p/2	P
(D)	E	E	p/2	p

2. **A 500 kg rocket travels in deep space at a constant speed of 3000 ms ˆ The power being produced by the rocket engine at this time is:**

(A) 1500 KW (B) 6 KW (C) 0.16 KW (D) None of these

3. **Name the quantity which can be measured by using base unit "kgm^2s^{-3}":**

(A) Weight (B) Pressure (C) Power (D) Work

4. **The rate at which work is being done is called:**

(A) Power (B) Energy (C) Density (D) Force

5. **Energy consumed by 60 watt bulb in 2 minutes is equal to:**

(A) 72 Kilo joules (B) 720 joules (C) Joules (D) 72000 joules

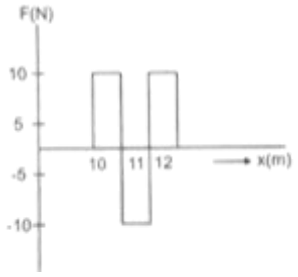
6. **Which one of the following is a greater work:**

(A) +100 (B) -100 J (C) -1000 J (D) +200 J

7. **At what angle work done will be maximum:**

(A) 0^o (B) 90^o (C) 45^o (D) 30^o

8. **The figure shows the force distance curve of a body moving along a straight line. The work done by the forces:**



(A) 10 J (B) 20 J (C) 30 J (D) 40 J

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Answer Key											
1	C	**2**	D	**3**	C	**4**	A	**5**	C	**6**	C
7	A	**8**	A								