1.3	_	b	0	
Work.	Energy	4	Power	

(Q-1) What is work done?

> Work done is the product of force and the distance moved in direction of the force.

WORK DONE = FORCE X DISTANCE

W.D = F x d.

WD = FCOSQ x d.

* IF F is not constant, then WD = Area under graph.

Work Done = Energy transferred

1 Joule = 1 Newton x 1 metre

15 = 1 Nm.

Q-2) work done in expansion of a gas at constant pressure

A-0

A = area of cross-section, s = distance moved

F = phessume x anea

= P x A

WD = Fxd = PxAxS

= Px (increased volume)

= PxdV

= P x AV

= pressure x change in volume

Q-5)	fower what is power?			
>	Power is the rate at which work is done.			
	Power = work done			
	time.			
	1w = 15 (1 Joue per second)			
	15.			
0-6)	Conservation of energy.			
	Energy can neither be created non destroyed.			
	It can only be converted from one form to another.			
	It is constant in the universe.			
	: efficiency = useful output energy x 100.			
	total energy input			
	coldi elioliji input			
	1908 AP			
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