Total Possible Marks: 33

Class:

## **Energy Stores and Transfers**



8	1. When energy is transferred to an object, the energy is stored in one of the objects "energy stor Look at the list of energy stores below and match each one with its corresponding definition:								
		A Them	nal		a.	<ul> <li>Any object. The hotter it is, the more energy it has in this store you may also see these types of energy stores called "internal energy stores".</li> </ul>			
		B Kineti	ic		b.	. Anything moving has energy in this store			
		C Chem	_ Chemical			Anything that can release energy by a chemical reaction for example foods or fuels.			
		D Gravi	Gravitational potential Elastic potential Electrostatic Magnetic			<ul> <li>Anything that has mass and is inside a gravitational field.</li> </ul>			
		E Elasti				Anything that is stretched or compressed, for example a spring.			
		F Electr				<ul> <li>Anything with electric charge that is interacting with another electric charge for example two charges that attract or repel each other.</li> </ul>			
		G Magn				Anything magnetic that is interacting with another magnetic item.			
		H Nucle	ear		h.	Atomic nuclei have energy in this store which can be released in nuclear reactions.			
12	2.	might be interest the net change (i) , end different (k) stores	sted in. In a (d) in the (g) ergy is (j) in the system enter	energy of a closed . It can be train transferred	ther I syst nsfer eren sin	object or a (c) of objects that you er (e) nor energy can (f) or leave, stem is always (h) . When a system erred into or away from the system, between nt types of energy (I) .			
1	3.	objects closed zero system changes matter  "Work done" is just another way of saying "energy transferred".							
		(A) True (B) False							

\_\_\_ 4.



	Look at the picture of a child's "Jack in the box" toy. In a short paragraph, give an account of the energy changes/energy transfers when the toy is set and subsequently activated.						
5. 4	Energy can be transferred between energy stores in one of 4 different ways. Look at the names of the 4 different ways, and match each with its corresponding correct definition.						
	A	Mechanically	a.	Energy transferred from a hotter object to a cooler object, for example heating a pan of water on the hob.			
	В	Electrically	b.	An object moving due to a force acting on it, for example pushing, pulling, stretching or squashing.			
	C	By heating	c.	Energy transferred by for example light or sound waves, for example energy from the sun reaching the earth by light.			
	D	By radiation	d.	A charge (current) moving through a potential difference, for example charges moving			

around a circuit.