



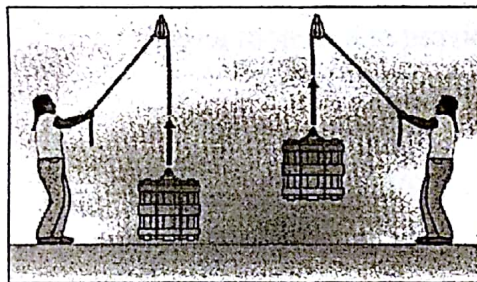
Al Sharq Bright International School
Model Paper for Final Exam 2017-2018

Name: _____ Subject: Physics Class: 8 Date: _____

Paper – 2

A. Multiple choice questions:

1. A power station uses nuclear fission to obtain energy. In this process, nuclear energy is first changed into
 - a) chemical energy
 - b) electrical energy
 - c) gravitational energy
 - d) thermal (heat) energy
2. A person lifts boxes of equal weight onto a platform.



Which quantity will not affect the work done by the person?

- a) the height of the platform above the ground
 - b) the number of boxes lifted
 - c) the time taken to lift the boxes
 - d) the weight of the boxes
3. Which of these is designed to change electrical energy into kinetic energy?
 - a) torch
 - b) generator
 - c) motor
 - d) transformer
 4. The S.I. Unit of energy is
 - a) calories
 - b) Joules
 - c) potential
 - d) watt

5. Which line in the table describes the properties of solids and liquids at a fixed temperature?

	Solids	Liquids
A	Definite volume and definite shape	No definite volume but definite shape
B	No definite volume but definite shape	Definite volume and definite shape
C	Definite volume and definite shape	Definite volume and no definite shape
D	No definite volume but definite shape	No definite volume and no definite shape

Paper – 4

B. Answer the following questions:

1. What energy conversions are going on in the following? In each case, write an equation to represent the conversion.
 - a) Coal is burned to heat a room and to provide a supply of hot water.
 - b) A student uses an electric lamp while she is doing her homework.
2. A runner of mass 80kg is moving at 8m/s. Calculate her kinetic energy.

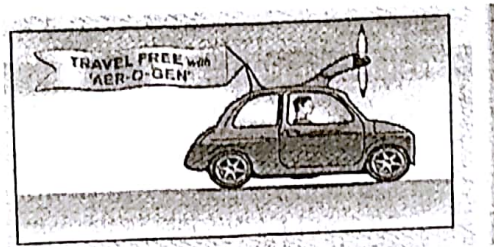
Kinetic Energy =

3. A particular solid material is heated but its temperature does not rise.
 - a) What is happening to the solid?
 - b) Where does the energy go that is being supplied to it?
4. Explain Boyle's law?

Paper – 6

C. **Alternative to practical:**

Figure shows an idea for a perpetual motion machine. The car runs on electricity. As it moves along, the air moving past the car turns the generator on the roof. This generates the electricity needed to power the car.



1. Explain the energy transformations that are going on here.
2. Explain why this idea will not work in practice.
3. Name the three opposite forces, which may stop or hinder the motion of the car.

Note: This is just a model, not the exam paper.