

Centre Number										Paper Reference	4	4	2	0	/	2	H	Examiner's use only
Candidate Number										Signature								

# 4420/2H London Examinations IGCSE

## Physics Paper 2H

## Higher Tier

Wednesday 16 June 2010 – Morning Time: 2 hours

Materials required for examination Items included with question papers  
None

### Instructions to Candidates

In the boxes above, write your centre number, candidate number, your surname, initials and signature. The reference is shown at the top of this page. Check that you have the correct question paper. Answer ALL the questions. Write your answers in the spaces provided in this question paper. Some questions must be answered cross in a box.

To change your mind about an answer, put a line through the box.

This question is about ~~the types of energy transfer~~ the sentences to identify the forms of energy involved in the energy transfers.

Show ~~the steps in your calculation~~ the words built to give steam. The steam spins a turbine connected to a generator.

Information for Candidates

The total mark for this paper is 120. The marks for individual questions and the parts of questions are shown in brackets. ~~Any blank space~~ in this question paper. Any blank space indicated. Use the formulae on page 2.

(iii) The useful energy output from the generator is \_\_\_\_\_ energy. (1)

### Advice to Candidates

In a hydroelectric power station, water from a high dam falls down a pipe and spins a turbine.

Write your answers ~~in the spaces provided~~ in the pipe is

from \_\_\_\_\_ energy to \_\_\_\_\_ energy. (2)

(iii) Some energy is wasted as \_\_\_\_\_ energy.

(Total 6 marks)

(d) Explain why it is not possible to use the relationship in (b) to find the refractive index of water using an angle from the diagram.

N36907

A (1)

(e) (i) State the relationship between refractive index, angle of incidence and angle of refraction.

(1)

(ii) Use angles from the diagram to calculate the refractive index of water.

Refractive index = \_\_\_\_\_ (2)

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paper  
with a

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(1)

This question is about two types of power in identify the forms of energy involved in this

(a) In an oil-burning power station, oil is burned. The steam spins a turbine connected to a generator.

(i) The oil has \_\_\_\_\_

(ii) The spinning turbine has \_\_\_\_\_

(iii) The useful energy output from the generator is \_\_\_\_\_

(b) In a hydroelectric power station, water falls down a pipe and spins a turbine.

(i) The useful energy transfer in the pipe is from \_\_\_\_\_ energy to \_\_\_\_\_

(ii) Some energy is wasted as \_\_\_\_\_

(Total 6 marks)

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