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General Certificate of Education  
Advanced Subsidiary Examination  
June 2013

## Physics A

**PHYA1**

Unit 1 Particles, Quantum Phenomena and Electricity

Monday 20 May 2013

1.30 pm to 2.45 pm

For this paper you must have:

- a pencil and a ruler
- a calculator
- a Data and Formulae Booklet (enclosed).

### Time allowed

- 1 hour 15 minutes

### Instructions

- Use black ink or black ball-point pen.
- Fill in the boxes at the top of this page.
- Answer **all** questions.
- You must answer the questions in the spaces provided. Do not write outside the box around each page or on blank pages.
- Do all rough work in this book. Cross through any work you do not want to be marked.
- Show all your working.

### Information

- The marks for questions are shown in brackets.
- The maximum mark for this paper is 70.
- You are expected to use a calculator where appropriate.
- A *Data and Formulae Booklet* is provided as a loose insert.
- You will be marked on your ability to:
  - use good English
  - organise information clearly
  - use specialist vocabulary where appropriate.

For Examiner's Use	
Examiner's Initials	
Question	Mark
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2	
3	
4	
5	
6	
7	
TOTAL	



# Phya1 May 2013 Markscheme

**Thomas Bond, Chris Hughes**



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systems Sections cover how the CNS creates stable percepts based on fuzzy and continuously changing signals from numerous receptors and the variable processes related to ongoing actions The author also develops the idea of control with referent coordinates to stability of salient variables in fields typically united under the label of cognition Examples of this include communication how the gist of a message is preserved despite variability of phrases thought processes how one can solve a mental problem via different logical routes and playing chess how one selects an optimal move given a position on the board The book is written for researchers instructors clinicians and other professionals in all the fields related to biological movement and perception Presents a unifying theory of motor control based on physics Encompasses action perception and cognition Discusses referent coordinates kinesthetic perception and stability of actions Identifies the importance of the CNS over computational brain function      *Parliamentary Debates (Hansard)*. Great Britain. Parliament. House of Commons,2012

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from tank neck b cap internal pipe with plastic cap

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web 3 if the sand filter is installed below the water level or connected to mains water isolation valves should before the filter and after the valve this will prevent water flow 1 position

