



Victorian Certificate of Education 2005

SUPERVISOR TO ATTACH PROCESSING LABEL HERE

STUDENT NUMBER

Letter

Figures

Words

PHYSICS

Written examination 1

Monday 6 June 2005

Reading time: 11.45 am to 12.00 noon (15 minutes)

Writing time: 12.00 noon to 1.30 pm (1 hour 30 minutes)

QUESTION AND ANSWER BOOK

Structure of book

Section	Number of questions	Number of questions to be answered	Number of marks
A – Core – Areas of study			
1. Motion in one and two dimensions	16	16	40
2. Electronics and photonics	10	10	25
B – Detailed studies			
1. Einstein's special relativity (page 14)	10	10	25
OR			
2. Investigating materials and their use in structures (page 19)	12	12	25
OR			
3. Further electronics (page 25)	11	11	25
			Total 90

- Students are permitted to bring into the examination room: pens, pencils, highlighters, erasers, sharpeners, rulers, up to two pages (one A4 sheet) of pre-written notes (typed or handwritten) and an approved graphics calculator (memory cleared) and/or one scientific calculator.
- Students are NOT permitted to bring into the examination room: blank sheets of paper and/or white out liquid/tape.

Materials supplied

- Question and answer book of 29 pages with a detachable data sheet in the centrefold.

Instructions

- Detach the data sheet from the centre of this book during reading time.
- Write your **student number** in the space provided above on this page.
- Answer all questions in the spaces provided.
- **Always** show your working where space is provided.
- Where an answer box has a unit printed in it, give your answer in that unit.
- You should take the value of g to be 10 m s^{-2} .
- All written responses must be in English.

Students are NOT permitted to bring mobile phones and/or any other electronic communication devices into the examination room.

SECTION A – Core**Instructions for Section A**

Answer **all** questions **for both** Areas of study in this section of the paper.

SECTION B – Detailed studies**Instructions for Section B**

Choose **one** of the following **Detailed studies**. Answer **all** the questions on the Detailed study you have chosen.