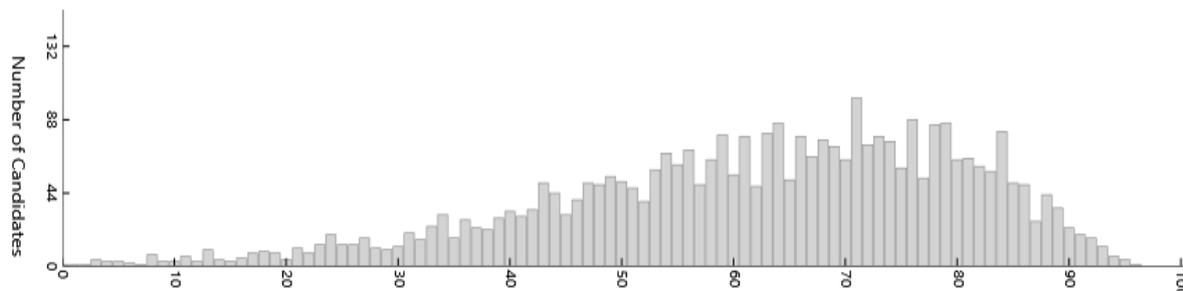




Summary report of the 2016 ATAR course examination: Physics

| Year | Number who sat | Number of absentees |
|------|----------------|---------------------|
| 2016 | 3493 | 53 |

Examination score distribution



Summary

The written examination consisted of three sections, with candidates being required to attempt all questions. The mean of the paper was slightly higher at 61.85% when compared to last year's mean of 60.78%. The spread of marks ranged from 1.11% to 95.28% and the standard deviation was 18.28%. The last few questions of the paper had a higher proportion of non-attempts, indicating that time could have been a factor, although this was also the most difficult of the sections. Anecdotally it was reported that stronger candidates completed the examination with time to spare.

Section means were:

| | | | |
|------------------------------|-----------------|-----------|----------|
| Section One: Short response | Mean 20.14(/30) | Max 30.00 | Min 0.56 |
| Section Two: Problem-solving | Mean 30.73(/50) | Max 48.61 | Min 0.28 |
| Section Three: Comprehension | Mean 11.10(/20) | Max 20.00 | Min 0.00 |

General comments

There was an overall balance of questions from the syllabus, with candidates demonstrating a sound understanding of the content, including the new syllabus content.

Advice for candidates

- As legibility is important for awarding marks for working, you need to organise your responses in a way that can be followed, using the answer boxes provided.
- You need to practise vector diagrams, sketching free body and field diagrams as well as understanding what each part represents.
- As questions are often asked in an unfamiliar context, but always relating to the syllabus, there is no need to deviate in your answers.
- Descriptive terminology is important, e.g. 'the spectrum' is not the same as 'line absorption spectrum'.
- When asked to show how to arrive at a calculated value or derive a relationship, if you arrive at a different value, your workings may have gone awry.

