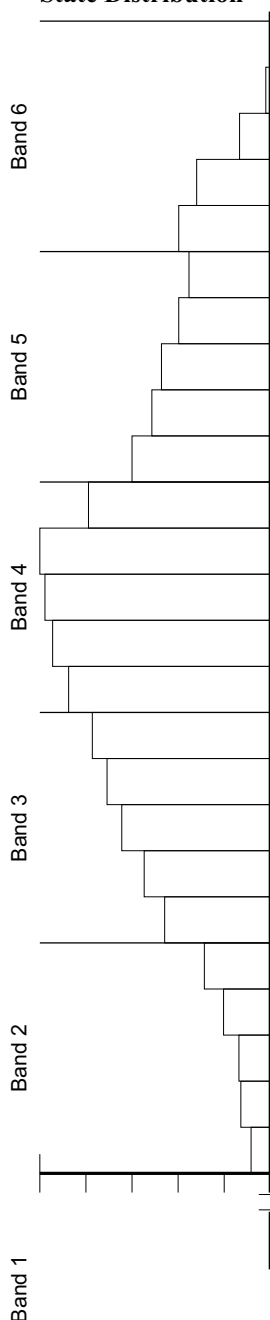


# 2015 Course Report



## Physics

### State Distribution



### The typical performance in this band:

**Band 6** Demonstrates an extensive knowledge and understanding of the concepts of the physics course content including context, prescribed focus areas and domain. Displays an outstanding ability to describe and explain physics concepts, including abstract ideas, clearly and accurately, and to apply the concepts to unfamiliar situations. Applies a high level of critical thinking skills in developing appropriate solutions to problems involving a long sequence of related tasks. Analyses, evaluates and extrapolates data effectively, identifies complex relationships, quantifies explanations and descriptions, and synthesises information to draw conclusions. Communicates succinctly, logically and sequentially using a variety of scientific formats. Demonstrates a high level ability to design an experimental procedure.

**Band 5** Demonstrates a thorough knowledge and understanding of the concepts of the physics course content including context, prescribed focus areas and domain. Effectively communicates a detailed understanding of physics concepts using appropriate physics terminology and some illustrative examples, and applies the concepts to unfamiliar situations. Analyses information given in written, tabular, graphical and diagrammatic forms and relates this to other relevant information. Displays competence in manipulating equations to solve problems involving a number of steps. Demonstrates a thorough knowledge of the use of appropriate experimental procedures.

**Band 4** Demonstrates a sound knowledge and understanding of the concepts of the physics course content including context, prescribed focus areas and domain. Describes concepts and information clearly in written and graphical forms and applies these concepts in familiar situations. Demonstrates a broad ability to carry out calculations and/or substitute into equations and to use relevant symbols and units when manipulating data. Displays proficiency in selecting relevant data from information given in written, tabular, graphical and diagrammatic forms. Describes correct apparatus for a particular physical measurement and has an adequate understanding of experimental methodology.

**Band 3** Demonstrates a basic knowledge and understanding of the concepts of the physics course content including context, prescribed focus areas and domain. Uses simple physics definitions and terms to communicate understanding of physics concepts. Substitutes data from information given in written, tabular, graphical and diagrammatic forms. Draws simple diagrams and graphs to describe phenomena in physics.

**Band 2** Demonstrates a limited knowledge and understanding of the physics course content including context, prescribed focus areas and domain. Recalls elementary terminology and formulae related to some areas of physics. Interprets basic diagrams and graphs. Determines an appropriate scale for a graph.

**Band 1** A mark in this band indicates that the student has achieved below the minimum standard expected.

The candidature of this course was 9,511.

