



BOARD OF STUDIES  
NEW SOUTH WALES

2005

HIGHER SCHOOL CERTIFICATE  
EXAMINATION

# Engineering Studies

- General Instructions**
- Reading time – 5 minutes
  - Working time – 3 hours
  - Write using black or blue pen
  - Draw diagrams using pencil
  - Board-approved calculators may be used
  - A formulae sheet is provided at the back of this paper
  - Write your Centre Number and Student Number at the top of pages 9, 11, 15, 17, 19, 23, 27 and 31
- Total marks – 100**
- Section I** Pages 2–6  
**10 marks**
- Attempt Questions 1–10
  - Allow about 20 minutes for this section
- Section II** Pages 9–26  
**70 marks**
- Attempt Questions 11–16
  - Allow about 2 hours for this section
- Section III** Pages 27–34  
**20 marks**
- Attempt Questions 17–18
  - Allow about 40 minutes for this section

## Section I

10 marks  
Attempt Questions 1–10  
Allow about 20 minutes for this section

Use the multiple-choice answer sheet.

Select the alternative A, B, C or D that best answers the question. Fill in the response oval completely.

Sample:  $2 + 4 =$  (A) 2 (B) 6 (C) 8 (D) 9  
A  B  C  D

If you think you have made a mistake, put a cross through the incorrect answer and fill in the new answer.

A  B  C  D

If you change your mind and have crossed out what you consider to be the correct answer, then indicate the correct answer by writing the word **correct** and drawing an arrow as follows.

A  B  C  D   
correct