

**DEPARTMENT OF HIGHER EDUCATION AND TRAINING**  
**REPUBLIC OF SOUTH AFRICA**  
**NATIONAL CERTIFICATE**  
**ENGINEERING SCIENCE NS**  
**TIME: 3 HOURS**  
**MARKS: 100**

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**INSTRUCTIONS AND INFORMATION**

1. Answer ALL the questions.
  2. All calculations should consist of at least THREE steps:
    - 2.1 The formula used in manipulation.
    - 2.2 Substitution of the given data in the formula.
    - 2.3 The answer with the correct SI unit.
  3. The constant values, as they appear in the attachment information sheet, must be used whenever possible.
  4. Number the answers according to the numbering system used in this question paper.
  5. Keep sub-sections of questions together.
  6. Rule off on completion of each question.
  7. Drawing instruments must be used for all drawings/diagrams. All drawings/diagrams must be fully labelled.
  8. Use  $g = 9,8 \text{ ms}^{-2}$ .
  9. Answers must be rounded off to THREE decimal places.
  10. Write neatly and legibly.
-

# Memo For Engineering Science 30july2014

**Jiyuan Zhang**



**Memo For Engineering Science 30july2014:**

Immerse yourself in heartwarming tales of love and emotion with is touching creation, **Memo For Engineering Science 30july2014** . This emotionally charged ebook, available for download in a PDF format ( PDF Size: \*), is a celebration of love in all its forms. Download now and let the warmth of these stories envelop your heart.

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