

DEPARTMENT OF HIGHER EDUCATION AND TRAINING
REPUBLIC OF SOUTH AFRICA
NATIONAL CERTIFICATE
ENGINEERING SCIENCE N3
TIME: 3 HOURS
MARKS: 100

INSTRUCTIONS AND INFORMATION

1. Answer ALL the questions.
2. Read ALL the questions carefully.
3. ALL the calculations must consist of, at least, the following THREE steps:
 - 3.1 The formula used or manipulation thereof
 - 3.2 Substitution of the given data in the formula
 - 3.3 The answer with the correct SI unit
4. The constant values, as they appear on the attached information sheet, must be used where ever possible.
5. Number the answers correctly according to the numbering system used in this question paper.
6. Keep subsections of questions together.
7. Rule off on completion of each question.
8. Drawing instruments must be used for ALL drawings/diagrams. ALL drawings/diagrams must be fully labelled.
9. ONE mark indicates ONE percentage point, that is 100 marks = 100%.
10. Use $g = 9,8 \text{ m/s}^2$
11. Answers must be rounded off to at least THREE decimal places.
12. Write neatly and legibly.

Engineering Science N3 Exam Paper 2013

Michael Rajnik



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