

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

INSTRUCTIONS AND INFORMATION

1. Answer ALL the questions.
 2. All calculations should consist of at least THREE steps:
 - 2.1 The formula used in the calculation
 - 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 attached 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 $g = 9,8 \text{ m/s}^2$.
 9. Answers must be rounded off to THREE decimal places.
 10. Write neatly and legibly.
-

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Padhraic Smyth



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