

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.
-

Engineering Science N3 June 2014 Question Paper

R Sandford



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Future Information Engineering and Manufacturing Science Dawei Zheng, 2015-02-25 The 2014 International Conference on Future Information Engineering and Manufacturing Science FIEMS 2014 was held June 26 27 in Beijing China The objective of FIEMS 2014 was to provide a platform for researchers engineers academics as well as industry professionals from all over the world to present their research results and development acti

The Organization of Information Daniel N. Joudrey, 2025-09-04 Organizing information is at the heart of the information professions and the fifth edition of The Organization of Information is a key resource for anyone seeking up to date guidance

Shaping Images Thorsten Stephan Beck, 2016-09-12 Images play an outstanding role in the transfer of knowledge They are used in numerous academic disciplines to present scientific results Digital tools such as Adobe Photoshop make it possible to display the information in images brilliantly and clearly at the same time the line between appropriate and inappropriate manipulation is not always easy to draw Scientific journals have published guidelines for handling and editing images but they are not always specific enough to provide clarity for all situations Shaping Images examines how scholars from biology information science art history and design deal with this uncertainty how they process and manipulate images where they see their special potential and how they draw the line between appropriate and inappropriate image manipulation The work also looks at scientific journals and lets selected editors have their say What would have to happen to make it possible to combat image manipulation in science more effectively The book s interdisciplinary approach makes it clear how different the practices are and how different the views are on what should be allowed in the processing of images Images this too is problematized in the book are always a means to a certain end which is precisely why the handling of images should be thoroughly reflected upon

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