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APRIL 2006

NATIONAL CERTIFICATE INDUSTRIAL ELECTRONICS N5 (8080175)

10 April (X-Paper)
09:00 – 12:00

calculators may be used.

the question paper consists of 5 pages and a 6-page formula sheet.

DEPARTMENT OF EDUCATION
REPUBLIC OF SOUTH AFRICA
NATIONAL CERTIFICATE
INDUSTRIAL ELECTRONICS N5
TIME: 3 HOURS
MARKS: 100

Answer ALL the questions.

INSTRUCTIONS AND INFORMATION

1. All the calculations must be shown.
2. All the sketches and diagrams must be large, clear and neat.
3. Keep questions and sub-questions of questions together.
4. Answers must be clearly numbered.

QUESTION 1: ALTERNATING CURRENT THEORY

- 1.1 State the factors that determine the capacitance of a capacitor. (3)
- 1.2 Why is the differentiator called a high-pass filter? (2)
- 1.3



FIGURE 1

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Ensheng Dong



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Atlas C.S. Hammond & Company,1961

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