

DEPARTMENT OF EDUCATION
REPUBLIC OF SOUTH AFRICA
NATIONAL CERTIFICATE
MATHEMATICS N2
TIME: 3 HOURS
MARKS: 100

August 2005

Answer ALL the questions.

NOTE:

Follow ALL the instructions in the answer book strictly.

QUESTION 1

1.1 Simplify by using logarithmic laws:

$$2 \log_4 5 + 5 \log_4 2 + 3 \log_4 3 - \log_4 100 \quad (4)$$

1.2 Determine the value of $\log_8 128$ without using the calculator. (2)

1.3 Simplify by making use of exponential laws:

$$1.3.1 \quad x^2 \cdot 3x + x^{3x+2} \quad (2)$$

$$1.3.2 \quad \frac{27a^{-2}b^{-2}}{4^{-4}a^2b^{-3}} \quad (3)$$

1.4 Solve for 'x':

$$1.4.1 \quad 3^{2x} = 81 \quad (2)$$

$$1.4.2 \quad \sqrt[3]{x} = 64 \quad (2)$$

Mathematics Question Paper N2 28 March 2014

Richard Bailey



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