

REPUBLIC OF GHANA

NATIONAL VOCATIONAL TRAINING INSTITUTE

TESTING DIVISION

**INFORMATION AND COMMUNICATIONS
TECHNOLOGY (ICT) EXAMINATIONS**

NOVEMBER/DECEMBER 2013

LEVEL: THREE

PRINCIPLES OF PROGRAMMING

DURATION: 3 HOURS

SECTION A

Answer all the questions.

1. Briefly describe the use of constant data types
2. Briefly explain the term arrays with examples
3. Describe the uses of local and global variables.
4. Explain the IF statement.
5. Explain the term compilers.
6. Explain the term Dynamic arrays with examples.
7. explain the term SQL with reference to object orientation.
8. Explain three features of object-oriented programming languages.
9. List four (4) arithmetic operators with reference to operator precedence.
10. List three (3) types of conditional statement.

SECTION B

ANSWER ALL QUESTIONS

Write a QBasic Programme to solve the following:

1. Suppose you travelled 335 miles and your car used 9.8 gallons. Write a program to calculate and print average gas mileage by dividing miles travelled by gasoline used. Choose names to stand for miles travelled, gasoline used, and average gas mileage.
2. Write a program to calculate and print the number of grams in 13 ounces. You can convert from ounces to grams by using this formula: $\text{grams} = 28.4 * \text{ounces}$. Choose variable names to stand for ounces and grams.