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GABA CAMPUS - ELDORET

MAIN EXAMINATION

SEPTEMBER – DECEMBER 2021 TRIMESTER

FACULTY OF SCIENCE

DEPARTMENT OF COMPUTER AND INFORMATION SCIENCE

DIPLOMA IN INFORMATION TECHNOLOGY

DIT 004: INTRODUCTION TO PROGRAMMING METHODOLOGIES

Date: December 2021

Duration: 2 Hours

Instructions: Answer Question **ONE** and any other **TWO** Questions

QUESTION ONE

- i) Explain the following terms
 - a) Computer programming (2 marks)
 - b) A computer program (2 marks)
 - c) Computer Programmer (2 marks)
 - d) Algorithm (2 marks)
 - e) Text Editor (2 marks)
- ii) Write a simple program to display Hello world in C, JAVA and PYTHON programming Languages (10 marks)
- iii) What's Data Types explain (3 marks)
- iv) List five examples of C and Java Data Types (5 marks)
- v) Explain what you understand about Variables (2 marks)

QUESTION TWO

- i) Define Decision making statements in programming (3 marks)
- ii) Draw a flow chat to illustrate Decision making (6 marks)
- iii) List five types of loops (5 marks)
- iv) Define Computer Programming – Characters (2 marks)
- v) Define an array (2 marks)
- vi) Define computer programming string (2 marks)

QUESTION THREE

- i) Define computer programming Loops (3 marks)
- ii) Write a code in C programming to print hello world five times (10 marks)
- iii) Write a general form of a loop statement in most of the programming languages (7 marks)

QUESTION FOUR

- i) Define Computer Programming – Keywords and give seven examples of java keyword (10 marks)
- ii) Define a Computer Programming – Operators and list seven examples of Arithmetic Operators (10 marks)

QUESTION FIVE

- i) Define flowchart (2 marks)
- ii) List and draw elements of a flowchart in computer programming (8 marks)
- iii) List and explain four types of programming languages (4 marks)
- iv) List and explain five main programming language (4 marks)
- v) Define pseudocode? (2 marks)

END