

DIPLOMA IN COMPUTER STUDIES

TOF LEVEL 6 EXAMINATIONS

FINAL INTEGRATED SUMMATIVE EXAMINATIONS

SITTING: NOVEMBER/DECEMBER 2023

SUBJECT: ADVANCED PROGRAMMING

TIME: THREE (3) HOURS TOTAL MARKS: PASS MARK: 100 50

INSTRUCTIONS

- the space provided on the answer booklet. on the answer Booklet provided. Write your examination number and National Registration Card number Ensure to append your signature in
- 2. Write your answer SCRIPT SE register provided and the entry RIAL NUMBER on the examination slip.
- S There are SEVEN (7) question s in this paper.
- 4 Attempt any FIVE (5) questions of your own choice.
- 5. All questions carry equal marks.
- Cell phones and programmable calculators are NOT allowed in the examination room.

DO NOT TURN THIS PAPE R UNTIL YOU ARE TOLD TO DO

QUESTION 1

- (10 marks) meaning of Artificial Intelligence (AI) and the explain a) With the use of examples, application in real life.
- responsibility (10 marks) disadvantages of using class, (2) two and collaboration-based modelling. b) State three (3) advantages and

Total (20 marks)

QUESTION 2~

- a) Distinguish between stacks and queues.
- b) Explain the concept of hashing.
- c) State three (3) types of arrays.

- (8 marks)
- (6 marks)

Total (20 marks)

QUESTION 3

Describe the following concepts:

- a) Methods
- b) Properties
- c) Classes
- d) Objects
- e) Message passing

- (4 marks)
- (4 marks)

(4 marks)

- (4 marks)
- (4 marks)

Total (20 marks)

QUESTION 4

Explain the following types of polymorphism:

- a) Static
- b) Dynamic
- c) Inclusion
- d) Ad hoc
- e) Parameter

- (4 marks)
- (4 marks)
- (4 marks)
- (4 marks)

(4 marks)

Total (20 marks)

QUESTION 5

- With the aid of a diagram, describe five (5) parts of a compiler.
- Explain the following Microsoft Programs: 9
- Word =
- Excel =
- Power point **=**
- Publisher 2
- Access 5

- (10 marks)
- (2 marks)
- (2 marks) (2 marks
- (2 marks)
- (2 marks)
- Total (20 marks)

QUESTION 6

- a) Define the term 'language translators'
- (3) language (18 marks) three of disadvantages 4 four and advantages b) Explain five (5)
- Translator programs.

Total (20 marks)

(2 marks)

QUESTION 7

Explain the following terms:

- a) Fuzzy Logic systems
 - b) Information hiding
- c) Machine language
- d) Assembly language

- (5 marks)
- (5 marks)
- (5 marks)
- (5 marks)