

DIPLOMA IN COMPUTER STUDIES alevetal

LEVEL 6 EXAMINATIONS

FINAL INTEGRATED SUMMATIVE EXAMINATIONS

SITTING: APRIL 2022

SUBJECT: SYSTEM ANALYSIS AND DESIGN II

TIME of THREE (3) HOURS to elabel a level a level at leve

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INSTRUCTIONS

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- 2 verwitte et our answers CRIPT SERIAL en UMBER on the examination registere et ever alle versite versite et alle versite vers
- 31 There are SEVEN 70 questions in this paper.
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- 5. Each question carries twenty (20).
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QUESTION 1

- a) Explain the common methods that are used when estimating system development time.
 (9 marks)
- Method can be defined as a systematic and orderly procedure or process for attaining some objective. Structured methodology divides the systems life cycle into stages.
 Describe the characteristics of structured methods. (5 marks)
- c) Describe the most important techniques used in Structured Systems Analysis and Design Method (SSADM) (6 marks)

[Total: 20 marks]

QUESTION 2 V

- a) Training of both operators and users can be done through different methods. Describe
 the methods citing their merits only.
- b) During system's review we use event logging and attitude survey to evaluate the system. Explain concisely these methods.
- c) Explain the following terminologies:

i) Implementation,

(2 marks)

ii) Evaluation

(1 marks)

iii) Maintenance

(2 marks)

[Total: 20 marks]

QUESTION 3

- a) You are the Systems Analyst at the Ministry Of General Education. You need to install a new system throughout the country. The senior managers at the ministry have utmost trust in the new system.
 - i) State the changeover method or methods that can be used. (4 marks)
 - ii) State two (2) disadvantages and one (1) advantage of the identified method or methods. (6 marks)
- b) Describe the three (3) types of data that do not need to be entered into a system.

(6 marks)

c) Explain the distinction between validation and verification

(4 marks)

[TOTAL: 20 MARKS]

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- a) State two advantages of a Light Emitting Diode (LED) screen over a Cathode Ray Tube (CRT).
 (4 marks)
- b) The significance of the use of graphic format to present information to management cannot be over emphasized. Concisely explain three (3) reasons why graphics are used.

(6 marks)

 c) For a systems analyst to learn a great deal about what the output of a newly designed system must be, they need to properly and fully answer some questions. Explain those questions.

[Total: 20 marks]

QUESTION 5

a) State the various important factors that one should consider prior to system selection.

(6 marks)

- b) To select both software and hardware is a vigorous exercise. Describe the steps involved in the selection process.
- c) Describe the following criteria used in software selection:

i) Reliability

(2 marks)

ii) Security

(2 marks) [Total: 20 marks]

QUESTION 6

- a) A code is said to be a brief number, title, or symbol used instead of more lengthy or ambiguous descriptions. Explain the aims of coding.
 (6 marks)
- b) Describe concisely five (5) coding methods giving an example of each. (10 marks)
- c) Explain transaction validation

(4 marks)

[Total: 20 marks]

QUESTION 7-/

- a) There are three levels of quality assurance that an analyst uses which are testing, verification with validation and certification. Describe these levels. (8 marks)
- b) Distinguish between the following terms

White box testing and black box testing

(4 marks)

ii) Static testing and dynamic testing

(4 marks)

iii) Integration testing and system testing

(4 marks)

[Total: 20 marks]