



National University of Science and Technology

FACULTY OF COMMERCE

DEPARTMENT OF ACCOUNTING

SECOND SEMESTER EXAMINATION PAPER: 2011/2012

DATE: MAY 2012

SUBJECT: INTRODUCTION TO INFORMATION TECHNOLOGY: CAC 1203

TIME ALLOWED: THREE (3) HOURS

MARKS: 100

INSTRUCTIONS TO CANDIDATES

1. Answer **any** Four (4) questions
2. Use the examination book provided
3. Use black or blue pen
4. Begin each question on a new page and
5. Submit all answer books

QUESTION ONE [25 MARKS]

Explain each of the following with the aid of diagrams:

- i) Data [5 Marks]
- ii) Information [5 Marks]
- iii) Knowledge [5 Marks]
- iv) Low level abstraction [5 Marks]
- v) High level abstraction [5 Marks]

QUESTION TWO [25 MARKS]

(a) Describe the Systems Concept, the relevance of the concept to computer based information systems and the applicability of the concept to an organisation. [15 Marks]

(b) briefly discuss any FIVE (5) hardware components of the computer. [10 Marks]

QUESTION THREE [25 MARKS]

(a) Using an industry of your choice, identify FIVE (5) input devices which would be relevant for that industry and explain why that method would be appropriate. [5 Marks]

(b) For the following data access methods, identify secondary storage devices that employ that data access method and explain instance of applicability of the secondary storage device selected.

- i) Sequential access [10 Marks]
- ii) Direct access [10 Marks]

QUESTION FOUR [25 MARKS]

(a) Compare and contrast propriety and off-the-shelf software. [10 Marks]

(b) Define:

- i) Bandwidth [3 Marks]
- ii) Protocol [3 Marks]
- iii) Modem [3 Marks]
- iv) Internet [3 Marks]
- v) Intranet [3 Marks]

QUESTION FIVE [25 MARKS]

(a) Explain with the aid of diagrams the relationships that exist among data, information, information systems and the nature of each information system. [15 Marks]

(b) Graphically illustrate the Transaction Processing Cycle and explain each stage in the cycle using real life illustrations. [10 Marks]

QUESTION SIX [25 MARKS]

(a) What are the differences between decision support systems and management information systems. [10 Marks]

(b) Illustrate diagrammatically the main Group Decision Support System alternatives. [5 Marks]

(c) Give reasons for each alternative identified in (b) above. [10 Marks]

END OF EXAMINATION PAPER