



**UNIVERSITY EXAMINATIONS**

**EXAMINATION FOR SEPTEMBER/DECEMBER 2019/2020 DIPLOMA IN  
COMPUTER SCIENCE/DIPLOMA IN INFORMATION TECHNOLOGY/ DIPLOMA IN  
BUSINESS INFORMATION TECHNOLOGY**

**COURSE CODE: \_\_\_\_\_ COURSE UNIT \_\_\_\_\_**

**DATE: \_\_\_\_\_**

**TIME: 2 HOURS**

**GENERAL INSTRUCTIONS:**

Students are NOT permitted to write on the examination paper during examination time.

This is a closed book examination. Text book/Reference books/notes are not permitted.

**SPECIAL INSTRUCTIONS:**

This examination paper consists Questions in Section A followed by section B.

Answer Question 1 and any Other Two questions.

QUESTIONS in ALL Sections should be answered in answer booklet(s).

- 1. PLEASE start the answer to EACH question on a NEW PAGE.**
- 2. Keep your phone(s) switched off at the front of the examination room.**
- 3. Keep ALL bags and caps at the front of the examination room and DO NOT refer to ANY unauthorized material before or during the course of the examination.**
- 4. ALWAYS show your working.**
- 5. Marks indicated in parenthesis i.e. ( ) will be awarded for clear and logical answers.**
- 6. Write your REGISTRATION No. clearly on the answer booklet(s).**
- 7. For the Questions, write the number of the question on the answer booklet(s) in the order you answered them.**
- 8. DO NOT use your PHONE as a CALCULATOR.**
- 9. YOU are ONLY ALLOWED to leave the exam room 30minutes to the end of the Exam.**
- 10. DO NOT write on the QUESTION PAPER. Use the back of your BOOKLET for any calculations or rough work.**

**Question 1 (30 Marks)**

- a) Explain the following computer related terms: (4 Marks)
  - i. Computer Literacy
  - ii. Digital Divide
- b) Citing five examples, explain how digital revolution has changed the modern day society. (10 Marks)
- c) Using a suitable example for each, distinguish between the following:
  - i. Data and information. (4 Marks)
  - ii. Hardware and Software (4 Marks)
  - iii. Storage medium and storage device (4 Marks)
- d) Explain **two** characteristics of a computer network. (4 Marks)

**Question 2 (20 Marks)**

- a) Explain **four** reasons for using application software. (8 Marks)
- b) Describe **four** features of the word processing application. (8 Marks)
- c) Distinguish between a database and database software. (4 Marks)

**Question 3 (20 Marks)**

- a) Describe the organization of spreadsheet software. (6 Marks)
- b) Explain **three** features of spreadsheet software. (6 Marks)
- c) Explain **two** reasons for using project management software. (4 Marks)

**Question 4 (20 Marks)**

- a) Define an application service provider (ASP) and state why an organization would choose to use an ASP. (4 Marks)
- b) Explain **four** functions of the operating system. (8 Marks)
- c) Distinguish between cold boot and warm boot. (4 Marks)
- d) Find the octal equivalent of the hexadecimal number BC and remember to show your working. (4 Marks)

**Question 5 (20 Marks)**

- a) Explain how the operating system is involved in memory management. (6 Marks)
- b) Identify and explain five characteristics of operating systems. (10 Marks)
- c) Explain what a computer virus is and state two signs of a virus infection. (4 Marks)

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