



PAN AFRICA CHRISTIAN UNIVERSITY
SCHOOL OF LEADERSHIP, BUSINESS AND TECHNOLOGY
END OF SEMESTER EXAMINATION FOR DIPLOMA IN
INFORMATION & COMMUNICATION TECHNOLOGY
MAY-AUGUST 2019

DEPARTMENT: COMPUTING & INFORMATION TECHNOLOGY

COURSE CODE: DICT0111

CAMPUS: ROYSAMBU

COURSE TITLE: INTRODUCTION TO COMPUTERS & OPERATING SYSTEMS

EXAM DATE: FRIDAY 9TH AUGUST 2019

TIME: 9.00AM-11.00AM

DURATION: 2 HOURS

INSTRUCTIONS

- This exam script has **TWO (2)** sections.
- Read all questions carefully before attempting.
- Answer All questions in Section **A** and any other Four questions in Section **B**.
- Write only your **student number** on the answer booklet provided.
- None programmable calculators permitted
- Calculators on phones, tablets and computers are NOT permitted in Theory Papers

SECTION -A 30 Marks (Answer ALL questions in this section)

QUESTION ONE:

- a) Describe **FOUR** functions of operating System. [8 Marks].
- b) Illustrate the four components of a computer system. [4 Marks].
- c) Discuss FIVE input and output devices commonly used in computing [10 Marks]
- d) Name and explain three types of computers [4 Marks].
- e) Explain the booting process of a computer. [2 Marks]
- f) Differentiate between hardware and software [2 Marks]

SECTION B: (Answer any FOUR (3) questions in this section)

QUESTION TWO (10 Marks)

- a) Define the following terms [6 Marks]
 - i. Software
 - ii. Media Access Control (MAC)
 - iii. Random Access Memory (RAM)
- b) List four advantages of using an anti-virus. [4 Marks]

QUESTION THREE

Explain five application areas of ICT in the society. [10 Marks]

QUESTION FOUR

Define the term storage unit, describe the type of storage units we have and discuss their characteristics [10 Marks]

QUESTION FIVE

- i. Describe a computer virus [2 Marks]
- ii. Computer viruses are dangerous, explain why? [2 Marks]
- iii. Discuss three methods in which computer viruses can spread from one computer to another [6 Marks]

QUESTION SIX

- i. Discuss any four emerging trends in ICT today [8 Marks]
- ii. List any two fundamental concepts of Computer Security [2 Marks]