

PAN AFRICA CHRISTIAN UNIVERSITY

DIPLOMA INFORMATION COMMUNICATION TECHNOLOGY

END OF TERM EXAMINATION

DEPARTMENT: COMPUTING & INFORMATION TECHNOLOGY

COURSE CODE: DICT0111

CAMPUS: ROYSAMBU

COURSE TITLE: INTRODUCTION TO COMPUTERS AND OPERATING SYSTEM

EXAM DATE: 7TH AUGUST 2023

TIME: 8 am – 11 am

INSTRUCTIONS

- This exam carry a total of SIX Questions of [10 Marks Each]
- Section One (I) is compulsory.
- Answer any 3 (Three) Questions from Section Two (II)
- Read all questions carefully before attempting.

SECTION ONE: (COMPULSORY)**10 MARKS****QUESTION ONE**

- a) Define the term Computer. **[1 Marks]**
- b) With the aid of a block diagram, describe the components of a computer. **[4 Marks]**
- c) Explain the major function of an operating system? **[1 Mark]**
- d) Using a well labeled diagram or otherwise show one point of interaction between the user and operating system and another point of interaction between the user and the computer hardware system **[4 Marks]**

SECTION TWO: (ANSWER ANY THREE (3) QUESTIONS)**30 MARKS****QUESTION TWO.**

- a) Input devices are hardware devices that allow data to be entered into a computer. What is the major difference between manual input device and a direct input device. Explain why direct input devices require special attention of not only the user but also the ICT professional. **[4 Marks]**
- b) Explain the function of a digitizer in computers. **[2 Marks]**
- c) Explain the functions and differences between Optical Mark Reader and Optical Character Reader. **[4 marks]**

QUESTION THREE.

You are the IT person in XYZ company. The company has been using Windows 7 operating system. You have been asked by the IT Manager to advice on how the Operating system should be upgraded to Windows 10 operating. Explain the steps you will take to upgrade the system **[10 Marks]**

QUESTION FOUR.

- a) Explain the term computer file? **[1 Mark]**
- b) State and explain three file attributes **[3 Marks]**
- c) State three security attributes and explain the different assignment given to each attribute in terms of user permissions. **[6 Marks]**

QUESTION FIVE.

- a) The two file systems used in Windows are FAT and NTFS. Explain the difference between the two and state why one is preferred over the other. **[5 Marks]**
- b) Two of the methods used for file access in Windows are Direct Access and Indexed Sequential Access. Explain the differences between the two access methods and discuss the situation where one is preferred over the other. **[5 Marks]**

QUESTION SIX.

Describe Network Operating System (NOS) and explain why it is considered one the most important part a computer System **[10 Marks]**

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