



PAN AFRICA CHRISTIAN UNIVERSITY

BACHELORS OF BUSINESS INFORMATION TECHNOLOGY

END OF TERM EXAMINATION

DEPARTMENT: COMPUTING AND INFORMATION TECHNOLOGY

COURSE CODE: BIT101 | COM105 | GES1123

COURSE TITLE: COMPUTER STUDIES

EXAM DATE: WEDNESDAY 29TH JULY 2015

TIME: 0900 – 1200 HRS

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 your **student number** on the answer booklet provided.



SECTION A
(Answer ALL questions in this section)

QUESTION ONE: **(20 MARKS)**

- a) Define the term computer (2 marks)
- b) Describe any two uses of computer in learning institution (2 marks)
- c) Differentiate the following terms
 - i) Data and information (2 marks)
 - ii) Special purpose computers and general purpose computers (2 marks)
 - iii) Impact printers and non-impact printers (2 marks)
 - iv) Systems software and application software (2 marks)
- d) Discuss four generation of computers in terms of memory, speed, power circuitry, and cost (8 marks)

SECTION B
(Answer any FOUR (4) questions in this section)

QUESTION TWO **(20 MARKS)**

- a) Briefly classify the four basic ways by which computers can be categorized. (8 marks)
- b) As an IT manager in company X you are to help in purchasing monitors for the company to be used by different users within the company.
 - i) Briefly explain to the management the two types of monitors in the market (4 marks)
 - ii) Outline four factors to consider when buying a monitor of your choice (8 marks)



QUESTION THREE

(20 MARKS)

- a) Central processing unit is a special component in a computer system. Explain its key elements with their functionalities (4 marks)
- b) Computer graphics is a computer science field that has been used in the market for a quite number of applications. Discuss how this field is used in the market today (10 marks)
- c) As a system administrator in company Y, explain to your trainees any three different kinds of system software (6 marks)

QUESTION FOUR

(20 MARKS)

- a) Evaluate the binary equivalent of each of the following decimal number
 - i) 16 (2 marks)
 - ii) 128 (2 marks)
- b) Convert the following hexadecimal numbers into binary number system
 - i) $13C_{16}$ (2 marks)
 - ii) $2D6_{16}$ (2 marks)
- c) Define a computer virus (2 marks)
- d) Outline any five perpetrators of cybercrime who intrude in networks (10 marks)

QUESTION FIVE

(20 MARKS)

- a) Recognizing that individuals need specific standards for the ethical use of computers there are several IT code of conduct written to determine whether a specific computer action is ethical or not. List ten IT code of conduct guidelines (10 marks)



- b) Information privacy is vital for both individual and companies in restricting information about them. Discuss how you can safe guard personal information over the network (10 marks)

QUESTION SIX **(20 MARKS)**

- a) Define the term cloud computing (2 marks)
- b) Describe the concept of IaaS, PaaS, and SaaS (6 marks)
- c) Briefly describe RAID concept (4 marks)
- d) Explain the term ergonomics and how it is implemented in computer technology (5 marks)
- e) Define the term virtualization and explain how this technology is used (3 marks)

QUESTION SEVEN **(20 MARKS)**

- a) Regarding IT career of your choice, choose an area in IT that you are best in and discuss what it entails and roles you should play in that particular area (10 marks)
- b) There are sevral IT certifications important to you as IT personnel list any five and explain the benefits you will get from the certification (10 marks)