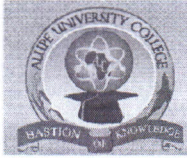


BBM 111/ECO 114



ALUPE UNIVERSITY
COLLEGE

Bastion of Knowledge...

P.O.Box 845-50400 Busia(K)
principal@auc.ac.ke
Tel: +254 741 217 185
+254 736 044 469
off Busia-Malaba road

OFFICE OF THE DEPUTY PRINCIPAL

ACADEMICS, RESEARCH AND STUDENTS' AFFAIRS

UNIVERSITY EXAMINATIONS

2018 /2019 ACADEMIC YEAR

FIRST YEAR FIRST SEMESTER REGULAR EXAMINATION

FOR THE DEGREE OF BACHELOR OF BUSINESS

MANAGEMENT/BA.ECONOMICS

COURSE CODE: BBM 111/ECO 114

COURSE TITLE: COMPUTER STUDIES

DATE:18/12/2018

TIME: 9.00AM-12.00PM.

INSTRUCTION TO CANDIDATES

- SEE INSIDE



THIS PAPER CONSISTS OF 4 PRINTED PAGES

PLEASE TURN OVER

BBM 111/ECO 114: COMPUTER STUDIES

STREAM: BBM/BA.ECON

DURATION: 3 HOURS

INSTRUCTIONS TO CANDIDATES

- i. Answer Question **ONE** and any other **TWO** questions
- ii. Do not write on the question paper

Question One

- a) A computer vendor advertised a computer with the following specifications: Explain the given specifications (6 marks)
- i. Intel Pentium duo core, 3Ghz processor
 - ii. 3.0 GB RAM
 - iii. 320 GB HDD.
 - iv. 15.6" monitor
- b) How many 1.44 MB storage devices would be used to store data that require a storage space of 4.7 GB? (2 marks)
- c) Explain two benefits which an organization may enjoy after automating their production system (4 marks)
- d) Contrast a file management system from a database management system (3 marks)
- e) Define the following terms as used in information technology. (8marks)
- i. Database
 - ii. Data encryption
 - iii. Spy ware
 - iv. HTML
- f) Give a brief description of the following code
- i. ASCII (1 mark)
 - ii. Unicode (1 mark)
- g) State and briefly explain any five primary functions of the operating system (5 marks)

**Question Two**

- a) Computers use the binary number system instead of the decimal number system; explain four reasons that justify this decision (6 marks)
- b) Perform the following base conversions: (5marks)
- i. Convert 79 base 10 into binary
 - ii. Convert CODE base 16 into decimal
- c) Distinguish between the second and the third computer generations (5 marks)
- d) Give two advantages and disadvantages of the following types of printers if your organization decides to purchase them
- i) Laser printer (2 marks)
 - ii) Dot matrix printer (2 marks)

Question Three

- a) Give a brief description of the following
- i) Sequential files (2 marks)
 - ii) Random files (2 marks)
 - iii) Indexed sequential files (2 marks)
- b) A student wants to upgrade her operating system. State and explain five factors she should consider (5 marks)
- c) Describe the difference between Mini computers, super computers and mainframe computers (6 marks)
- d) Describe how computers can prove to be an effective tool for communication (3Marks)

Question Four

- a) Identify and explain any four salient features of modern computers (8 marks)
- b) Give an elaborate distinction between digital computers and analog computers (4 marks)
- c) What do you understand by the following terms? (4Marks)
- (i) URL
 - (ii) Multimedia

d) Define the following terms as used in computers:

- i. Bit (2 mark)
- ii. Word length (2 mark)

Question Five

- a) Distinguish between RAM and ROM and give two examples of each type (4 marks)
- b) Give the functions of each of the following components
 - i)Control Unit (2 marks)
 - ii)Arithmetic Logic unit (2 marks)
- c) Identify four advantages of using a word processor package over a type writer (4marks)
- d) User interface design is very important in the development of any computer system. Explain six user interface design principles (8marks)
