



EMBU UNIVERSITY COLLEGE
(A Constituent College of the University of Nairobi)

2015/2016 ACADEMIC YEAR

TRIMESTER EXAMINATION

FIRST YEAR EXAMINATION FOR THE DIPLOMA IN PURCHASING AND
SUPPLIES

BBA 204: PRINCIPLES OF INFORMATION SYSTEMS

DATE: AUGUST 12, 2016

TIME: 8:00-10:00AM

INSTRUCTIONS:

Answer Question ONE and ANY Other TWO Questions.

QUESTION ONE (30 MARKS)

- a) Differentiate between hardware and software as used in computer systems while siting examples of each. (4 marks)
- b) Discuss the following as used in object-oriented design (4 marks)
 - i) Abstraction
 - ii) encapsulation
- c) Explain the term internet. (2 marks)
- d) Explain computer classification based on area of application. (4 marks)
- e) Explain any 2 effects of e-commerce. (2 marks)
- f) Distinguish between LAN and WLAN. (4 marks)
- g) Discuss the following as used in computer networking (4 marks)
 - i) Bandwidth
 - ii) PoE
- h) Discuss any 3 benefits of e- procurement. (6 marks)

QUESTION TWO (20 MARKS)

- a) Discuss the computer generations. (20 marks)

QUESTION THREE (20 MARKS)

- a) Discuss the term data communication. (3 marks)
- b) Discuss the term computer networks. (2 marks)
- c) Discuss 3 advantages and 3 disadvantages of the internet. (6 marks)
- d) Discuss the following networking cables stating the characteristics, pros and cons in each case. (9 marks)
- i) Twisted pair
 - ii) Coaxial
 - iii) Optical fibre

QUESTION FOUR (20 MARKS)

- a) Define the term computer. (2 marks)
- b) Discuss the difference between RAM and ROM as used in computers. (4 marks)
- c) Giving examples in each case, discuss the difference between input devices and output devices. (4 marks)
- d) Discuss the difference between parallel and sequential processing in regards to microprocessors. (6 marks)
- e) Differentiate between the main memory and external memory as used in computers. (4 marks)

QUESTION FIVE (20 MARKS)

- a) Using examples distinguish between application software and system software. (6 marks)
- b) State and explain the major operations performed by a computer (8 marks)
- c) Explain the difference between open-source and off the shelf software using suitable examples. (6 marks)

--END--