THE MOMBASA POLYTECHNIC UNIVERSITY COLLEGE

(A Constituent College of JKUAT)
(A Centre of Excellence)

Faculty of Engineering & Technology

DEPARTMENT OF COMPUTER SCIENCE & INFORMATION TECHNOLOGY

DIPLOMA IN INFORMATION COMMUNICATION TECHNOLOGY
DIPLOMA IN INFORMATION TECHNOLOGY
(DICT 10A/DICT 11M/DIT 11M/ DIT 2K 11M)

INTERNET PROGRAMMING

END OF SEMESTER EXAMINATION
SERIES: DECEMBER 2012
TIME: 2 HOURS

<u>**Instructions to Candidates:**</u>
You should have the following for this examination
- *Answer Booklet*

This paper consist of **FIVE** questions

Answer question **ONE (COMPULSORY)** and any other **TWO** questions
Maximum marks for each part of a question are as shown
This paper consists of **TWO** printed pages

Question One (Compulsory)

a) Explain the following terms:
  (i)   Computer
  (ii)   Server
  (iii) Work station
  (iv)   Information appliances
  (v)   Embedded computers   **(10 marks)**

b) State pointing and image/video input devices.   **(5 marks)**
c) What is an output device and give **THREE** examples.   **(5 marks)**
d) Explain the various components of the motherboard.   **(10 marks)**

Question Two

a) Differentiate between the major types of software.   **(2 marks)**
b) Describe the functions of the operating system.   **(4 marks)**
c) Identify **THREE** methods for developing application software.   **(3 marks)**
d) Describe the major types of application software.   **(6 marks)**

Question Three

a) Define computer security.   **(2 marks)**
b) Define a threat in relation to computing.   **(2 marks)**
c) What is a virus?   **(1 mark)**
d) Explain the various types of threats to computer security.   **(10 marks)**

Question Four

a) Identify the benefits of ergonomics.   **(5 marks)**
b) Describe the hazard control measures for office based environments. **(10 marks)**

Question Five

a) Distinguish the following:
  (i)   Information and Data   **(4 marks)**
  (ii)   Information Communication Technology and Information Technology. **(4 marks)**
  (iii) Random Access Memory and Read Only Memory   **(4 marks)**

b) State the roles of a system analyst.   **(3 marks)**