THE MOMBASA POLYTECHNIC UNIVERSITY COLLEGE

(A Constituent College of Jkuat)

Faculty of Engineering and Technology

DEPARTMENT OF COMPUTER SCIENCE & INFORMATION TECHNOLOGY

DIPLOMA IN INFORMATION COMMUNICATION TECHNOLOGY
(DICT 10M/DICT 2K 10J)
YR II SEM II

EIT 2203/EIT 2209: COMPUTER APPLICATIONS II

END OF SEMESTER EXAMINATIONS

SERIES: AUGUST/SEPTEMBER 2011

TIME: 2 HOURS

Instructions to Candidates:
Answers **MUST** be written clearly within the answer booklets provided with the exam paper
Answer questions **ONE (COMPULSORY)** and any other **TWO** questions from the list of questions below
This paper consists of **THREE** printed pages
SECTION A (30 MARKS) – Answer all Questions in this section

Question 1 (Compulsory)

a) Define the following terms
   (i)   Artificial intelligence
   (ii)   Expert system
   (iii) G.I.S
   (iv)   Cognitive science   (4 marks)

b) Give **FIVE** importance of artificial intelligence   (10 marks)

c) Discuss the **THREE** categories of artificial intelligence   (6 marks)

<u>**SECTION B – Answer any TWO questions**</u>

Question 2

a) Explain the following terms as used in Desktop Publishing
   (i)   Object
   (ii)   Drawing
   (iii) Docker Window   (6 marks)

b) Describe the components of a GIS   (10 marks)

c) Give **FOUR** importance of GIS   (4 marks)

Question 3

a) Give **FOUR** uses of Al in business   (8 marks)

b) Give **THREE** differences between Al and HI   (3 marks)

c) Define expert system   (1 mark)

d) State and explain the four components of expert systems   (8 marks)

Question 4

a) Describe process of CAD imaging and what hardware, software is used,   (6 marks)

b) Explain the following as used in AUTOCAD
   (i)   Commands   (2 marks)
   (ii)   Menu   (3 marks)
   (iii) Modes   (3 marks)
   (iv)   Interfaces   (3 marks)
   (v)   Dialog boxes   (3 marks)

Question 5

a) State **TWO** types of systems   (2 marks)

b) State **FOUR** features of a system   (4 marks)

c) State and explain the **FOUR** system implementation methods   (4 marks)

d) Discuss **FIVE** challenges to artificial intelligence   (10 marks)