



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)

SECTION B – Answer any TWO questions

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 AI in business (8 marks)
- b) Give **THREE** differences between AI 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)