



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 2K 11M, DICT 11M

EIT 2103: COMPUTER APPLICATIONS

SPECIAL/SUPPLEMENTARY EXAMINATION

SERIES: OCTOBER 2011

TIME: 2 HOURS

Instructions to Candidates:

You should have the following for this examination

- *Answer booklet*

Answer question **ONE (COMPULSORY)** in section A and any other **TWO** questions from section B

Maximum marks for each part of a question are clearly shown.

This paper consists of **TWO** printed page

QUESTION 1

- a) Describe the process of CAD imaging and what hardware, software is used. [6 marks]
- b) Explain the following as used in AUTOCAD.
- a) Commands. [2 marks]
 - b) Menus. [3 marks]
 - c) Modes. [3 marks]
 - d) Interfaces. [3 marks]
 - e) Dialog boxes. [3 marks]

QUESTION 2

- a) Describe the application of gis in the following fields
- (i) marketing
 - (ii) security (4marks)
- b) Explain 4 information system implementation methods (8 marks)
- c) Give 4 reasons that may force a company to change Information system (8marks)

QUESTION 3

- a) define the term GIS (1 marks)
- b) discuss the process of developing an expert system (10 marks)
- c) give 5 challenges of artificial intelligence (5 marks)
- d) explain the two ways of acquiring software (4 marks)

QUESTION 4

- a) Define virtual reality (1 mark)
- b) State 3 components of virtual reality (3marks)
- c) Discuss the 3 categories of artificial intelligence (6marks)
- d) Discuss five challenges to artificial intelligence (10 marks)

QUESTION 5

- a) Explain;
- i. CAD.
 - ii. CAD concepts. [6 marks]
- b) List **ten** preliminary commands used in AutoCAD. [10 marks]
- c) Explain any **two** application of CAD. [4 marks]