



TECHNICAL UNIVERISTY OF MOMBASA

Faculty of Engineering & Technology

DEPARTMENT OF COMPUTER SCIENCE & INFORMATION TECHNOLOGY

CERTIFICATE IN ELECTRICAL POWER ENGINEERING (CEPE)

ECS 1104: COMPUTER APPLICATIONS II

END OF SEMESTER EXAMINATION

SERIES: APRIL 2013

TIME: 2 HOURS

Instructions to Candidates:

You should have the following for this examination

- *Answer Booklet*

This paper consists of **FIVE** questions. Attempt question **ONE** 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) Define the following terms as used in databases:
- (i) Database management system
 - (ii) Table
 - (iii) File
 - (iv) Table
 - (v) Field
- (5 marks)
- b) Give **THREE** examples of commonly used database management system. (3 marks)
- c) Contrast primary key and foreign key. (4 marks)
- d) Explain any **FOUR** uses of any database objects. (4 marks)
- e) Outline the steps for creating a new database file in Ms. Access. (4 marks)

Question Two

- a) Discuss any **FIVE** factors to consider before choosing a programming language. (5 marks)
- b) Describe low level language. Give advantages for the various categories. (4 marks)
- c) Explain using diagrams the following programming constructs. (11 marks)

Question Three

- a) What is presentation software (2 marks)
- b) Give examples of commonly used presentation software. (3 marks)
- c) Identify application areas where presentation software will be handy. (2 marks)
- d) Outline the steps for performing the following ms: PowerPoint
- Using master template (4 marks)
 - Changing layout of slides (4 marks)
- e) Other than PowerPoint, state any other **FOUR** presentation software in the market today (4 marks)

Question Four

- a) Explain at least **SIX** data type in both programming languages and Microsoft Access. (12 marks)
- b) Explain at least **FOUR** symbols that can be used in setting up functions or criteria in a query. (8 marks)

Question Five

- a) Discuss the framework of the distributed processing mode. Use diagrams and examples to facilitate the discussion. (8 marks)
- b) Explain the factors considered in the choice of a processing mode. (5 marks)
- c) Discuss the application areas of Batch Processing Mode. (7 marks)