THE TECHNICAL UNIVERISTY OF MOMBASA

Faculty of Engineering & Technology

DEPARTMENT OF COMPUTER SCIENCE & INFORMATION TECHNOLOGY

DIPLOMA IN ELECTRICAL POWER & ELECTRONIC ENGINEERING
(DEPE 2)

ECS 2140: COMPUTER PROGRAMMING

END OF SEMESTER EXAMINATION

SERIES: APRIL 2013
TIME: 2 HOURS

Instructions to Candidates:
You should have the following for this examination

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 **THREE** printed pages

Question One (Compulsory)

a) Define the following terms as used in programming:
  (i) Syntax
  (ii) Semantics **(2 marks)**

b) Describe the difference between compiler and interpreter as used in programming. **(4 marks)**

c) Explain any **THREE** differences between procedural (structured) programming languages and event driven programming languages. **(6 marks)**

d) Discuss the advantages and disadvantages of each of the following:
  (i) High level languages
  (ii) Low level languages **(8 marks)**

Question Two

a) Describe the following terms while clearly outlining the procedure of performing them in Microsoft PowerPoint:
  (i) Custom animation
  (ii) Setup show
  (iii) Design templates
  (iv) Animation schemes **(10 marks)**

b) Explain the importance of notes page layout in Ms. PowerPoint. **(3 marks)**

c) Explain any **THREE** features of Microsoft PowerPoint. **(7 marks)**

Question Three

a) Discuss the following views as used in Microsoft Access:
  (i) Table design view
  (ii) Table datasheet view
  (iii) Query design view **(10 marks)**

b) Discuss the processes of creating the following objects in Microsoft Access:
  (i) Forms
  (ii) Reports
  (iii) Query **(10 marks)**

Question Four

Describe the following modes of processing and in each outline the advantage and disadvantages.
(20 marks)

(i) Batch
(ii) Mutli programming
(iii) Distributed
(iv) Real time processing
(v) Online and offline processing

Question Five

a) Explain any **FIVE** components of a network **(10 marks)**

b) Describe any **FIVE** advantages of networks **(10 marks)**