TECHNICAL UNIVERISTY OF MOMBASA Faculty of Engineering \& Technology

DEPARTMENT OF COMPUTER SCIENCE \& INFORMATION TECHNOLOGY
CERTIFICATE IN INFORMATION TECHNOLOGY
ECT 1102: COMPUTER APPLICATION
SPECIAL/SUPPLEMENTARY EXAMINATION
SERIES: JULY 2013
TIME: 2 HOURS

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
SECTION A (COMPULSORY)

## Question One

a) Name any THREE functions used a spreadsheet application.
(3marks)
b) State any FOUR areas of application of spreadsheets.
c) Explain any FIVE general features of spreadsheets.
d) State any THREE types of spreadsheet application

## Question Two

a) (i) Explain the term Word-processing.
(ii) Explain any TEN features of Word-processing

## Question Three

a) Explain the term Database Management System
b) Explain any SIX advantages of computerized Database Management System
c) Explain any THREE types in Ms-Access Database Management system

## SECTION B (ANSWER ANY ONE QUESTION)

## Question Four

a) Create a relational database using the table below. Call it PAYROLL.MDB.

| EMPNO. | FIRSTNAME | LASTNAME | SEX | AGE | HOURS | RATE |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| 001 | JOHN | TWAIN | MALE | 31 | 101 | 1000 |
| 002 | MARY | MAGA | FEMALE | 34 | 300 | 250 |
| 003 | TOM | MWENDE | FEMALE | 21 | 350 | 1000 |
| 004 | JANE | PIUS | MALE | 27 | 350 | 250 |
| 005 | ANNE | PAUL | MALE | 30 | 250 | 400 |
| 006 | PETER | MICHAEL | MALE | 30 | 470 | 500 |
| 007 | MIRIAM | ISMAEL | FEMALE | 29 | 100 | 600 |
| 008 | AISHA | NEKESA | FEMALE | 44 | 200 | 1000 |

b) Create TWO query files having records whose sex is FEMALE and MALE separately. Call them FEMALE and MALE respectively.
(20 marks)

## Question Five

a) Mr. Kariuki is a Lecturer at Technical University of Mombasa and wishes to use Microsoft Excel to process the marks obtained by students during their end semester examinations. The table 1 below, shows the details entered in the program.

|  | A | B | C | E | F | G | H | F | G |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| 1 | NAME | OS | MAIN | IP | TOTAL | AVERAGE | MAXIMU <br> M | MINIMUM |  |
| 2 | Mary | 56 | 23 | 57 |  |  |  |  |  |
| 3 | Benta | 89 | 45 | 78 |  |  |  |  |  |
| 4 | Salome | 52 | 66 | 78 |  |  |  |  |  |
| 5 | Jane | 23 | 45 | 47 |  |  |  |  |  |
| 6 | Amin | 46 | 38 | 56 |  |  |  |  |  |
| 7 | Kirwa | 44 | 39 | 22 |  |  |  |  |  |

Using the information in Table 1, determined:
(i) Use appropriate formula to calculate Total Marks, Average Marks, Maximum Score, and Minimum Score for the students.
(ii) Append a new column in the mark sheet and call it Grade
(iii) Compute the Grade given that Average 750 is a PASS, otherwise FAIL
(iv) Apply borders in worksheet
(20 marks)

