

451/2
COMPUTER STUDIES
Paper 2
(PRACTICAL)
Time 2 ½ HOURS

Kenya Certificate of Secondary Education (K.C.S.E)

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INSTRUCTIONS TO CANDIDATES

1. Type your name and index number at the top right hand corner of each printout
2. Sign and write the date of the examination below the name and index number on each printout
3. Write your name and index number on the compact disks
4. Write the name and version of the software used for each question attempted in the answer sheet
5. Passwords should not be used while saving in the compact disks
6. Answer all the questions
7. All questions carry equal marks
8. All answers must be saved in your compact disks
9. Make a printout of the answers on the answer sheets provided
10. Hand in all the printouts and the compact disks

*This paper consists of 4 printed pages.
Candidates should check the question paper to ensure that all
pages are printed as indicated and no questions are missing*

ANSWER ALL QUESTIONS

1. Mwangaza Training College offers Three courses to students. A student sits for three exams every semester, each exam marked out of 100. The students must have been enrolled first. The following is sample data collected from the college database

Courses

Course	Course description	Tuition fees
D-SECT	Secretarial Diploma	Kshs.15,000
D-INT	Diploma in IT	Kshs.18,000
D-ACCT	Diploma in Accounting	Kshs.16,500

Students enrollment

Student ID	St name	Sex	Date enrolled	Course code
SECT- 01	Gladys Cherop	Female	12/05/2011	D-SECT
INT – 03	James Mucheru	Male	16/05/2011	D-INT
ACC – 04	Peter Marangi	Male	18/05/2011	D-ACCT
SECT – 06	Jane Kamene	Female	17/05/2011	D-SECT

Exams offered

Exam code	Ex name
01	Opener
02	Midterm
03	Endterm

Exam performance

Exam record no	Student ID	Exam code	Semester	Score
1	SECT – 01	01	2	75
2	INT – 03	02	2	80
3	ACCT – 04	01	2	65
4	SECT – 01	02	2	70
5	ACCT – 04	02	2	60
6	INT – 03	01	2	68
7	SECT – 01	03	2	78
8	INT – 03	03	2	74
9	ACCT – 04	03	2	66

NB:- A course can be enrolled by many students and a student can do many exams. One exam can also be done by many students as shown in exam performance table.

Required

- Create a database file called Mwangaza College and save it. (2mks)
- Create a table structure for each of the four tables, setting most appropriate field as the primary key and choosing the most appropriate data type for each field (12mks)
- Relate the four tables as required to have one to many relationships (4mks)
- Create a data entry form for each table (8mks)
- Using the forms, populate the tables with the records (8mks)
- Query the tables to show Sname, Coursedescription, Exname, Exrecordno and score for all students who scored greater than 70. Save the query as high score (5mks)
- Create a grouped report that displays every student's details and his or her exam Performance as follows;
Student details – Sname, StudentID, Coursedescription.
Exam performance – Exname, Score, Average score. Save the report as performance report
- Print Exam performance table in landscape, high score query in portrait and performance

Report in portrait orientation.

(6mks)

2. Excel school ordered computer accessories and the following suppliers provided the following As illustrated below.

	A	B	C	D
1	Name	Item Sold	Amount	Date
2	Joseph	Mouse	200.00	2/11/2011
3	Peter	System unit	5,000.00	3/11/2011
4	Tony	Keyboard	200.00	4/11/2011
5	Mike	CD Writer	2,000.00	5/11/2011
6	Joseph	Computer1 System	2,000.00	6/11/2011
7	Peter	Mouse	200.00	7/11/2011
8	Tony	Mouse	200.00	8/11/2011
9	Mike	System Unit	2,500.00	9/11/2011
10	Joseph	Keyboard	200.00	10/11/2011
11	Peter	CD writer	3,000.00	11/11/2011
12	Tony	Computer System	5,400.00	12/11/2011
13	Mike	Mouse	200.00	13/11/2011
14	Joseph	System Unit	3,000.00	14/11/2011
15	Peter	Keyboard	200.00	15/11/2011
16	Tony	CD Writer	2,500.00	16/11/2011
17	Mike	Computer system	6,000.00	17/11/2011

- (a) Enter the data shown into a spreadsheet and save it (the workbook) as Excel. (11mks)
- (b) Copy the content of Sheet 1 to Sheet 2 into the exact position and rename it as New price.
Insert a new row after the Amount row and label it “New price”. The suppliers of the items decided to, increase all their items by 20%. Enter the percentage into cell A18. Using absolute referencing, calculate the New price of each of the items in the “New price” column. (7mks)
- (c) Copy the content of Sheet 1 to Sheet 3 and rename it as Subtotals. Using subtotals sheet Find subtotals for each supplier and display the Grand Total. (6mks)
- (d) Using the subtotals sheet, Create a column graph (bar graph) to compare the total cost of all items bought from each supplier. The x-axis should be labeled as “Names” and the y-axis “cost items”. Each bar should display a total value it represents on top of it and the supplier’s Name below it. The title of the graph should read, SUPPLIERS COMPARISON TOTALS. Place the graph on a new sheet and rename the sheet as BAR GRAPH (8mks)
- (e) Insert a new sheet into the workbook. Rename this sheet as “Filtered”. Open the subtotals sheet. Filter the records of all suppliers whose New price is greater than or equal to 6000 or less than 250. Copy the results onto the “Filtered” sheet. (6mks)
- (f) Open sheet 1. Restrict all the cells in the Amount column to allow entry of amounts between 0 and 6000. A message, “Input amount <= 6000” should be displayed whenever a cell is selected. In case of an invalid entry, the message, “Amount >6000”, should be displayed. Put an inside and outside border on data on sheet 1. (5mks)
- (g) Put the sheet name as the header and your name. School and index number as footer for every sheet in your workbook. Save your work on a removable storage media and **print ALL the worksheets**