KASU JOINT EXAMINATION

451/2 - COMPUTER STUDIES – Paper 2 (PRACTICAL)

JANUARY 2021

TIME: 2½ HRS

JANUARY EXAMINATION

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

Name……...……Adm.No……..…….

Index No. ……..……Class……Signature ……..…..

INSTRUCTIONS TO CANDIDATES

1. *Type your name and admission 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.*

1. The table below shows records kept by Agriculture teacher in Makonge Secondary School on issuing of farm tools to young farmers club members.

(a) Open a database program and create a database named **Y-Farmers**. (1 mark)

(b) (i) Create three tables named Class, Students and Items in the database file created in (a) using the following details. (13 marks)

Field name	Data types and properties
Student_Id	Text (Size = 4, Required = Yes)
Student Names	Text (Size = 25)
Gender	Text (size = 2)
Class	Text (size = 2)

Table 1: Students_Table

Field name	Data types and properties
Tool_Id	Text (Size = 4, Required = Yes)
Tool Name	Text (Size = 15)
Number issued	Number

Table 2: Tools_Table

Field name	Data types and properties
Issuing_Id	AutoNumber (Size = 2, Required = Yes)
Student_Id	Text (Size = 4)
Tool_Id	Text (Size = 4)
Date issued	Date and time (Format medium date)
Returned	(Boolean Yes/No)

Table 3: Issuing_Table

(c) Create the relationship between the three tables. (2 marks)

(d)Enforce referential integrity between the tables. (1 mark)

(e)Create data entry form for each table. Save the forms as **StudentsForm, ToolsForm** and **IssuingForm.** (3 marks)

(f)Enter the following data into the database using the respective forms. (12 marks)

Student_Id	Student Names	Gender	Class
900	Silah Rokito	F	4W
230	Sarah Martin	M	4R
450	Tedd Mwilu	F	2S
600	Brian Kibet	M	3N

Table 1: Students_Table

Tool_Id	Tool Name	Number issued
320	Jembe	22
321	Panga	15
322	Slasher	12
323	Rake	8

Table 2: Tools_Table

Issuing_Id	Student_Id	Tool_Id	Date issued	Returned
1	900	320	07/03/2019	Yes
2	600	321	09/04/2019	No
3	230	322	27/04/2019	No
4	900	320	17/04/2019	Yes
5	230	322	07/05/2019	Yes
6	450	321	25/05/2019	No
7	600	323	30/06/2019	Yes
8	230	322	13/07/2019	No
9	450	321	18/07/2019	No
10	600	323	07/04/2019	Yes

Table 3: Issuing_Table

(g) Modify the issuing table so as to capture the cost of each tool as shown below.(2 marks)

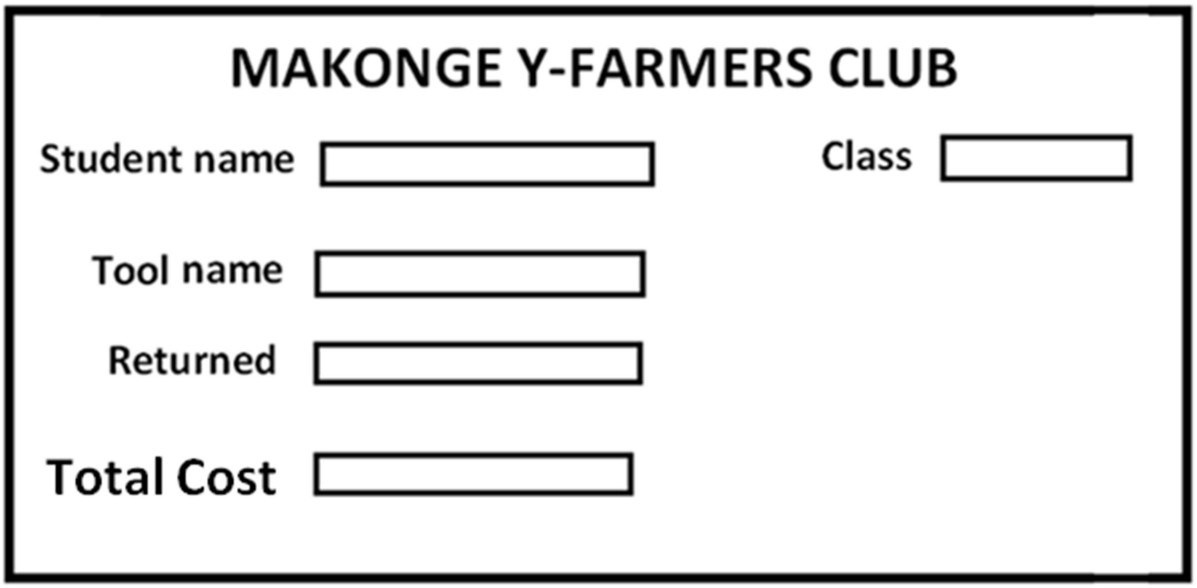
Tool_Id	Tool Cost
320	600
321	450
322	520
323	320

(h) (i) Create a query named **T_Query** to display the student name, gender, class, tools name and number of tools issued per student and cost. Compute cost of all the tools issued to students. (4 marks)

(ii) Create a query named **NR_Query** to display the student name, class, tools name, and number of tools issued, date issued and not returned. (4 marks)

(i) (I) Create a report named **Y-Report** to display students as it appears in figure below.

(3 marks)



(II) Group the records per tool name and compute cost of all the tools issued.(2 marks)

(j) Generate a bar graph named **Tool_Chart** to display tool name and the number issued.

(k)Printout each of the following: (3 marks)

(i) The three tables
(ii) The two queries
(iii)Report for the first three students.

2. The figure below shows the design of a wedding card. It comprises of the back and the front page.

(a) Open a Desktop Publishing program and make the following page settings.(4 marks)

(i) Orientation : Landscape
(ii) Units : centimeters
(iii) Paper size : A4
(iv) Margins : 2 cm all round

(b) Create the weeding card as it appears in Figure 2. Save the design as **W_Card**.(45 marks)