

Term 2 - 2022
COMPUTER STUDIES
(QUESTION PAPER II)
FORM FOUR
TIME: 2 1/2 HOURS

INSTRUCTIONS TO CANDIDATES

- a) Indicate your name and index number at the right hand corner of each printout
- b) Write your name and index number on the CD/removable storage medium provided
- c) Write the name and version of the software used for each question attempted in the answer sheet provided
- d) Answer all the questions, All questions carry equal marks
- e) Passwords should not be used while saving in the CD/removable storage Medium
- f) Marked printout of the answers on the sheet
- g) Hand in all the printouts and the CD/removable storage medium used

1. The table below shows list of students admitted to Nyambaria High School under different sponsors.

(a) Open a database program and create a database named **NHS**.(1mark)

(b) Create three tables named **Students**, **Sponsor** and **Fees**. (3marks)

(c) Using database file created in (a) above use the following field properties.

(6marks)

Student_Table

Field name	Data types and properties
School-Code	Default value = 427
AdmNo	Text (Size = 4, Required = Yes)
Student Name	Text (Size = 16)
Date of Birth	Date and time (Size = 10)
Amount paid	Text (Size = 4, Required = Yes)
SponsorID	LookUp -sponsor table
BankID	Text

Sponsor_Table

Field name	Data types and properties
SponsorID	Text (Size = 4, Required = Yes)
Sponsor Name	Text (Size = 16)

Amount_Table

Field name	Data types and properties
BankID	Text
BankName	Text (Size = 10)
Amount Per Student	Number (Size = 8, Decimal Place = 2)
Mode of payment	Text (Size = 12)

(i) Create the relationship between the tables.

(2marks)

(ii) Enforce referential integrity between the tables.

(1mark)

(iii) Create the three forms **StudentForm**, **SponsorForm** and **AmountForm**.

(3marks)

(iv) Enter the following data in their respective tables using the respective **forms**.

(8 marks)

Table 1: SponsorTable

SponsorID	Sponsor Name
S1	Wings
S2	Majani
S3	Elimu

Table 2: StudentTable

Sch-Code	AdmNo	SponsorID	StudName	BankID	DateOfBirth
427	444	S1	Lilian Mwende	100	12/03/2000
427	443	S3	Ruth Akinyi	200	23/01/1998
427	445	S2	Frida Omondi	100	11/07/2002
427	442	S1	Bianca Godana	300	12/05/2005
427	410	S3	Christine Awuor	300	28/05/1999
427	413	S2	Baraka kalala	200	30/09/1998
427	449	S1	Rael Mokaya	100	18/02/2005
427	411	S3	Slivia Odanga	100	17/04/2001
427	412	S2	Jane Kawaswa	200	19/06/2004
427	415	S2	Jack Jake	100	22/03/2003

Table 3: AmountTable

BankID	BankName	Amount Per Student	Mode of payment
100	COOP	550,000	EFT
200	KCB	120,000	M-banking
300	EQUITY	420,000	Cheque

(d) Create a query to display the fields:

(i) AdmNo, Sponsor name, age and Students whose first name start with letter “**B**” and whose payment Bank is “**COOP**” Save query as **B-query**.

(5marks)

(ii) StdName, Sponsor name, Mode of payment and Amount per student. Calculate the total amount received. Save query as **AMount-query**.

(5marks)

(iii) Create **Amountreport** from **Amount query** display all the records grouped by mode of payment and find the average per mode of payment

(4 marks)

(d) Create a bar chart to display students and their respective amount received. Save chart as **S-chart**.

(2 marks)

(e) Create **S-report** to display the fields as it appears in the figure below.

(5marks)

Sponsorship Report 2022	
AdNo	<input type="text"/>
StudName	<input type="text"/>
Sponsor Name	<input type="text"/>
Amount	<input type="text"/>
Bank Name	<input type="text"/>
Bank ID	<input type="text"/>

(f) Print the following:

(4 marks)

(i) The Student table

(ii) The B- query

(iii) The chart

(iv) The S-report

2. The following data was extracted from Applicants' file for Maranda high school comp/Maths teacher recruitment

(a) (i) Enter the data as it appears in a spreadsheet. And save it as **INTERVIEW**

(13mks)

	A	B	C	D	E	F	G	H	I
1	NAME	ADDRESS	TOWN	comp	Math	Eng	MEAN	APPLICANT'S POSITION	REMARK
2	Willington	400	Nairobi	40	60	60			
3	Benjamin	3201	Kisumu	55	50	40			
4	Nyambane T.	5600	Kisii	70	60	50			
5	Grace	1236	Bungoma	30	80	70			
6	Rebbeca	48	Eldoret	75	70	80			
7	Fatuma A	6032	Mombasa	40	30	50			
8	Kamau J.	8021	Nyeri	50	40	55			
9	Achieng .	209	Siaya	80	50	70			

(ii) Insert two blank rows at the top of the worksheet. (1 mark)

(iii) Enter the following title and subtitle in the blank rows respectively; MARANDA HIGH SCHOOL RECUIRTMENT FILE and APPLICANTS DETAILS.

(3marks)

(iv) Centre the title and subtitle across the columns that contain data.

(2marks)

(b) Using functions, compute:

(i) The mean for each Applicant and format it to 2 decimal places. (3marks)

(ii) The position of each Applicant. (3marks)

(iv) The highest and lowest score for Benjamin, enter the answers in L3 and M3 respectively (3marks)

(c) The school wishes to analyze the applicants' data in order to find those applicants who qualify for recruitment. Successful candidates MUST meet the following minimum requirements;

- i. Must have scored a mean of 40 marks and above;
- ii. Must have scored 60 marks and above in Computer;
- iii. Must have scored 50 marks and above in either Mathematics or English.

Use the above criteria to remark If the applicants qualifies, the function should display 'Successful'. Otherwise it should display 'Unsuccessful'.

(5marks)

(d) Using a function find the number of applicants who are successful.

(2marks)

(e) Copy the entire worksheet to sheet 2 and rename it as Successful Applicants.

(2marks)

(f) Filter the 'Successful Applicants' sheet to display the records of those applicants who are successful.

(2marks)

(g) In a new worksheet Create a bar chart to compare the performance of mathematics and computer for all applicants

(4marks)

(i) Insert **SUBJECT PERFORMANCE** as the heading of the chart (2 mark)

(ii) Assign the appropriate LEGENDS to the chart (1 mars)

(v) Name the axis appropriately (2 marks)

(h) Print: (2 marks)

I. **INTERVIEW;**

II. Successful Applicants Sheet;