

**THE UNITED REPUBLIC OF TANZANIA
NATIONAL EXAMINATIONS COUNCIL
CERTIFICATE OF SECONDARY EDUCATION EXAMINATION**

036/1

INFORMATION AND COMPUTER STUDIES 2

(For Both School and Private Candidates)

Time : 3 Hours

ANSWERS

Year : 2022

Instructions

1. This paper consists of sections A, B and C.
2. Answer all questions in section A and B and **one (1)** question from section C.
3. Non-programmable calculators may be used.
4. Communication devices and any unauthorised materials are **not** allowed in the examination room.
5. Write your **Examination Number** on every page of your answer booklet(s).

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1. Suppose a director at Mwenge High School requests you to create a Library System (LS) which will enable the librarian to add new books and students to borrow and return books:

(a) Use the basic HTML codes to create the following home page.

Homepage requirements:

- Table height and width: 300 and 450 respectively.
- Background color of the heading: Silver.
- Title: “MWENGE HIGH SCHOOL” should be level 1 heading.
- Subheading: “Library Management System” should be level 2 heading.
- Picture width: 100, height: 100 (use any picture from picture folder).
- The text: “Process texts by clicking any of these links” should be italicized and bold, font size 12.
- Links: New books, Borrowing, Returning. Each link should be level 3 heading.

(b)

(i) Activate the link “New books” to display a form which enables the librarian to add new books with details:

- Book Number
- Title
- Purchase Price

(ii) Activate the link “Borrowing” to display a form which enables the librarian to add the borrower’s details:

- StudentID

- Student Name
- Class
- Stream
- Book Borrowed
- Date Borrowed

(iii) Activate the link “Returning” to display a form which enables the librarian to add the details of students who return books:

- StudentID
- Returned Book

(c) Print your work.

2. The school manager at Chakubalo Secondary School (CSS) asks you to generate a database which consists of student details and examination results.

(a) Create a database called Exam_Results.

(b) Create two tables named Student_Details and Examination_Results with the following fields:

Student_Details: StudentID, StudentName, Age, Gender, Class, Combination.

Examination_Results: StudentID, Physics, Computer, Mathematics, Biology, Chemistry, Average.

(c) Create forms using wizard for each table to add data. Each form should be named with its respective table name.

(d) Validate the “Gender” field in the “Student_Details” table so that only “M” and “F” are allowed. If another entry is made, the system should display: “No such gender”.

- (e) Use the “Examination_Results” table to create a query that calculates the average score for each student and save it as “Average”.
- (f) Create a query that returns students with an average of 40 and above, save it as “Passed”.
- (g) Create a query titled “Failed” which displays only students who scored an average below 40 marks.
- (h) Create a relationship between the tables Student_Details and Examination_Results using StudentID as the primary key.
- (i) Generate reports for both passed and failed students and save them as their query names.
- (j) Print your work.

3. Kilimani Electronics Ltd is a company that sells mobile phones and accessories in Tanzania. The following is a screenshot of a worksheet which shows sales records from its three branches of Arusha, Mwanza and Tanga for the year that ended 2018. As an IT expert at Kilimani Company, you are required to study the following worksheet and answer the questions that follow:

- (a) Create a workbook named KILIMANI. Use the screenshot of the worksheet given to create a landscape worksheet in Sheet1. Rename Sheet1 as Sales Report.

The workbook should be named “KILIMANI” and the worksheet should be set to landscape orientation. Rename the sheet to “Sales Report” and input the sales data exactly as shown in the screenshot.

- (b) Use appropriate function to compute Minimum Sales in Mwanza region, Total Sales and Average for each month.

To compute Minimum Sales in Mwanza: =MIN(B3:B14).

To compute Total Sales for each month: =SUM(B3:D3).

To compute Average Sales: =AVERAGE(B3:D3).

- (c) VAT and WCT are obtained from Total Sales. Use absolute cell reference to calculate VAT which is 18% of the total sales and WCF which is equal to 2% of the total sales.

For VAT: $=E3*\$H\$2$ (where H2 contains 18%).

For WCF: $=E3*\$H\$3$ (where H3 contains 2%).

(d) Format the average column to display values into two decimal places.

Select the Average column, right-click and choose “Format Cells”. Under “Number”, set the decimal places to 2.

(e) Type your Examination Number at the centre section of the page header and insert page number at the left section of footer area.

Go to “Insert” > “Header & Footer”. Type the Examination Number in the centre header. Under footer options, insert page number on the left footer.

(f) Use the Months and Sales in Mwanza and Tanga regions to create the following column chart. Save the chart to a separate worksheet as Sales Chart.

First, highlight the data range for Months, Mwanza and Tanga sales.

Then, go to “Insert” > “Column Chart” > “Clustered Column”.

Right-click the chart and choose “Move Chart” > “New Worksheet” > name it “Sales Chart”.

Chart descriptions:

- Font style and size of the heading should be Calibri and 18.
- Font style and size of the Months, Sales and legend should be Times New Roman and 12.
- Colour for Mwanza bars should be red and Tanga bars should be green.

(g) Print your work.