

NAME_____ADM NO_____CLASS_____

LANJET EVALUATION TEST 2024

451/2 COMPUTER STUDIES

Paper 2 (PRACTICAL)

2 ½ hours

MARCH/APRIL 2024

FORM FOUR

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
- e) All questions carry equal marks
- f) Passwords should not be used while saving in the CD/removable storage Medium
- g) Marked printout of the answers on the sheet
- h) Arrange your printouts and staple them together
- i) Hand in all the printouts and the CD/removable storage medium used
- j) All the work should be saved at the desktop of your computer in a folder named with our name and index number. All the work in your folder should be burned to the CD/WR provided.
- k) *This paper consists of 5 printed pages. Candidates should check to ascertain that all pages are printed as indicated and that no questions are missing*

Q1. a) Type the following passage exactly as it appears and save it as 21CLD (25 marks)

21st Century Learning Design

Introduction

Students around the world need advanced skills to succeed in the globalised, knowledge-based world of today. 21st Century Learning Design, or 21CLD, professional development helps teachers redesign their existing lessons and learning activities to build students' 21st century skills.

21CLD online

The 21CLD curriculum - developed to enhance 21st century skills in student learning - builds on the

21CLD research methodology, providing a collaborative, practice-based process that helps educators transform how they design enriching learning activities for their students.

The 21CLD curriculum is based on rubrics,

which have been developed and tested

internationally for the Innovative

Teaching and Learning (ITL)

The 21CLD curriculum describes six rubrics. These are:

1. Collaboration
2. Skilled communication
3. Knowledge construction
4. Self-regulation
5. Real-world problem-solving and innovation
6. Use of ICT for learning

21CLD elements

The core elements of the 21CLD curriculum include:

- A focus on redesigning learning to develop 21st century skills and deepen understanding of 21CLD curricular goals.
- Facilitating educators to use new learning designs within their own teaching and to analyse the impact on student learning.

21CLD course structure

The 21CLD curriculum consists of the following 8 online courses: The 21CLD introductory course explains the background to the 21st century skills; The 21CLD rubricⁱ is used to analyse learning unit examples; The final course brings together all of the 21st century learning design elements

21CLD OneNote

This OneNote provides all of the resources and reading materials to accompany the 21CLD courses. Under each tab, you will find the 21CLD rubrics, decision trees and anchor lessons used throughout the online course.

ⁱ A **rubric** for **assessment**, usually in the form of a matrix or grid, is a tool used to interpret and grade students' work against criteria and standards.

- b) Insert a table of contents at the beginning of the document showing the topics covered in the 21CLD course as shown below. Save your work as 21CLD TABLE OF CONTENTS (3 marks)

Contents

21st Century Learning Design.....	1
Introduction.....	1
21CLD online.....	1
21CLD elements.....	1
21CLD course structure.....	1
21CLD OneNote.....	1

- c) Assessment was done on the application of the 21CLD and results recorded in a table. Design the table exactly as it appears. Save your work as RESULTS (5 marks)

NAME	CLASS	ADMNO	CAT1/30	CAT2/30	EXAM/100	AVERAGE
Mercy Jayden	4 Blue	5068	26	13	70	
Catherine Johns	4 Yellow	5897	14	10	30	
Crystal Evans	4 Purple	5589	19	20	74	
GRAND TOTAL						
Lowest CAT1						
Highest CAT2						

Insert a function to display the:

- i) AVERAGE for all the students (2 marks)
- ii) GRAND TOTAL (1 mark)
- iii) Lowest score in CAT1 (1 mark)
- iv) The Highest score in CAT2 (1 mark)

d) Insert the following expression (2 marks)

$$e^x = 1 + \frac{x}{1!} + \frac{x^2}{2!} + \frac{x^3}{3!} + \dots, -\infty < x < \infty$$

- e) Double space the names in the table (2 marks)
- f) Search and replace the word “Skills” and replace with “Competence” (2 marks)
- g) Insert a header “Competence Based Curriculum” (2 marks)
- h) Print the documents on both sides of the paper (4marks)

2. The following tables represent data for a video store named Sinai Video store. Study them and answer the questions that follow:

Table 1: MEMBERS

Member No	First name	Last name	Address	Phone	Town	Monthly fee
SVS-0001	Raphael	Mudibo	P.O.Box 343	(020)22112	Nairobi	Kshs 50
SVS-0002	Mary	Musembi	P.O Box 121	(050)34342	Gilgil	Kshs 50
SVS-0003	Bernard	Angaine	P.O Box 441	(038)24242	Naivasha	Kshs 50
SVS-0004	Gabriel	Laisula	P.O Box 134	(020)11445	Nairobi	Kshs 50
SVS-0005	Nelly	Mwangi	P.O Box 989	(038)25423	Naivasha	Kshs 50
SVS-0006	Janet	Mbori	P.O Box 323	(025)45343	Kisii	Kshs 100
SVS-0007	Bruce	Nyaga	P.O Box 544	(050)31322	Gilgil	Kshs 150
SVS-0008	Andrew	Bosibori	P.O Box 331	(025)21423	Kisii	Kshs 50
SVS-0009	Abubakar	Said	P.O Box 900	(028)23432	Isiolo	Kshs 100
SVS-0010	Samantha	Wellings	P.OBox 232	(025)53293	Kisii	Kshs 150

Table 2: RENTAL

Date collected	Member No	Disk No	Due Date	Rental Amount
1-May-2018	SVS-0004	001	5-May-2018	Kshs 20
12-May-2018	SVS-0001	003	16-May-2018	Kshs 20
15-June-2018	SVS-0005	002	19-June-2018	Kshs 20
20-June-2018	SVS-0004	005	24-June-2018	Kshs 50
30-June-2018	SVS-0005	006	04-July-2018	Kshs 50
12-July-2018	SVS-0005	004	16-July-2018	Kshs 25
25-October - 2018	SVS-0001	007	29-October - 2018	Kshs 50

Table 3: Movie

Disk No	Title	Category	Main Actor	Production Year	Rating
001	A Thief in the Night	Thriller	Hoss Baxton	1984	A
002	Nursery Rhymes	Educational	Kerry Kean	1994	A
003	Cartoon 17	General	Jimmy Grant	1994	C
004	Trading places	Comedy	Kim Fields	1995	B
005	When Hatred Came	Thriller	Shalom King	1987	A
006	The Gods must be crazy	Comedy	Mfasa Limpula	1986	B
007	The Gods must be crazy 2	Comedy	Mfasa Limpula	1988	B
008	The Gods must be crazy 3	Comedy	Mfasa Limpula	1991	B
009	The Island	Action	Marie Payton	1992	A
010	Prepare For War	Action	Rebecca	1990	A

- Create a database for the following tables. Name it as **Sinai Video Store** (2marks)
- Create three Tables for each of the above Tables adding appropriate primary key and other field properties for each (6marks)
- Create relevant relationships among the Tables (2marks)
- Create forms for each table and give them appropriate names (3marks)
- Using the forms created above, enter data into each Table (9marks)
- Using a query, add a field named **New Monthly Charges** that calculates the new monthly fee given that there is a 8% increase from current fee. Save it as **New Fee Query** (6marks)
- Create a query that displays all the movies produced **after the year 1990**. Save it as **Latest Movies** (5marks)
- Generate a query that calculates the Total income each Movie has made. Save the Query as **Total gain** (6marks)
- Create a report that:
 - Groups each of the movies according to category (2marks)
 - Calculates the income each movie category has made (2marks)
 - Calculates the total income from all movies (2marks)
 - Has the heading **Total Income Report** with font size 20 (2marks)
 - Save the report as Total Income Report (1mark)

Print **New Fee Query**, **Latest Movies query**, **Total Gain query** and **Total Income Report**