**840/2**

**COMPUTER STUDIES**

**PRACTICAL**

**Paper 2**

**August 2022**

21*/*2 hours

**POST-MOCK EXAMINATIONS**

**Uganda Certificate of Education**

COMPUTER STUDIES PRACTICAL

**Paper 2**

2 hours 30 minutes

**INSTRUCTIONS TO STUDENTS:**

*The paper consists of* **two** *sections,* **A** *and* **B**

*Section* **A***contains* **one** *compulsory question (1****a*** *and* ***b****) that takes 40 marks.*

*Section* **B** *contains* **two** *questions. Answer any* **two***questions from this section.*

Candidates should continuously save their work

*Each candidate* **must** *produce a* **hard copy** *for each of their work to accompany the diskette or compact disc.*

*Software wizards must not be used.*

*Create a folder on the desktop with all your names and save your work there*

**Turn Over**

**SECTION A: 20 MARKS**

1. (a) Type the following text and its illustration below exactly as it is and save it as **Set Theory** in your working folder. (07 marks)

**Venn diagram and its use**

A **Venn diagram** is an illustration of the relationships between and among sets, groups of objects that share something in common. Usually, **Venn diagrams** are **used to** depict set intersections (denoted by an upside-down letter U).

Learning How to **Compare** and **Contrast** Two or More Things. By Amanda Morin. Updated September 29, 2018. Cultura RM Exclusive/yellowdog/Getty Images. A **Venn diagram** is a visual tool used to **compare** and **contrast** two or more objects, events, people, or concepts.

A **Venn diagram** uses overlapping circles or other shapes to illustrate the logical relationships between two or more sets of items. Often, they serve to graphically organize things, highlighting how the items are similar and different for example take a look at this.

**Set C**

**Set B**

**AB**

**ABC**

**BC**

**AC**

**Set A**

**ABCDEFGHIJKLMNOPQRSTUVWXYZ**

 (b) Copy your work to page two and apply font size 14 Times New Roman. (02 marks)

(c) Change the letters of alphabet below the Venn into Wingdings font. (01 mark)

(d) Apply uppercase to the heading with font size 20 and an underline color of purple. (02 marks)

(e) Set the second paragraph to three columns with a line between. (02 marks)

(f) Insert a drop of two lines on the first letter of the second paragraph. (01 mark)

(g) Apply a 6pt orange shadow border to page two only (02 marks)

(h) Insert a horizontal watermark of your names below your Venn diagram on page two only. (02 marks)

(i) Use header in the format of Alphabet centered document title to store your names and personal number. (01 mark)

**1**(b) The Police report on the number of deaths as a result of road accidents in various towns of the country in the past years was as follows.

In 2014, Tororo-144, Kampala-356, Kabale-88, Gulu-56, Jinja-70, Mbarara- 289

In 2017, Tororo-200, Kampala-500, Kabale-120, Gulu-93, Jinja-150, Mbarara-300

In 2018, Tororo-211, Kampala-519, Kabale-120, Gulu-100, Jinja-148, Mbarara-159

1. Use a suitable spreadsheet program to enter the above data in one sheet. Save your work as Road accidents. (04 marks)
2. Use appropriate formulae to determine the total and average number of accidents in each town for the three years. Label the columns TOTAL and AVERAGE respectively. (03 marks)
3. The towns whose average number of accidents exceeds 150 are noted. Insert a column “**STATUS**” and use IF function to indicate “**INSECURE**” for towns whose average number of accidents exceeds 150, else “**SAFE**”. (03 marks)
4. Add all boarders to your work. (01 mark)
5. Align your row headings at an angle of -600. (02 marks)
6. Create a column Chart to represent the towns and number of accidents in the three years. Save the graph as My Pictorial. (04 marks)
7. Add a footer of your name and index number on sheet1. (01 mark)
8. Save and print your work. (01 mark)

**SECTION B (60 MARKS)**

1. The table below shows filtered data for KIM INVESTMENTS employees for the year 2009. Using any database management software capture the data and save it as Kim- your name eg (KIM- LODWAR)

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| STAFF NO | NAME | D O B | SALARY | DURATION | COUNTRY | HIV STATUS |
|  | Eseza | 15.09.1987 | 250,000 | 4 | Uganda | Yes |
|  | Deo | 09.04.1999 | 456,000 | 6 | Burundi | No |
|  | Juliet | 01.01.2000 | 342,000 | 2 | Rwanda | No |
|  | Mike | 30.03.1991 | 900,000 | 10 | Uganda | No |
|  | Nadit | 25.12.1996 | 643,000 | 5 | Rwanda | Yes |
|  | Lokwang | 06.02.1992 | 176,900 | 3 | Burundi | No |
|  | Saum | 19.10.1998 | 780,000 | 4 | Kenya | Yes |
|  | Edgar | 14.06.1990 | 864,000 | 6 | Uganda | No |
|  | Santana | 12.08.1986 | 324,500 | 6 | Burundi | Yes |
|  | Jemaah | 01.03.1997 | 754,000 | 7 | Kenya | No |
|  | Steve | 31.07.2001 | 125,250 | 15 | Uganda | No |
|  | Alison | 27.01.1998 | 786,000 | 5 | Rwanda | Yes |

a) Design a table using the above data and name it “KIM STAFF” (08mrks)

b) Set the STAFF NO: field as a primary key with a format of “KIM-000” using the auto number data type. (03mrks)

c)Design a form from the above table returning all fields, with additional field names of Age, Gross Salary (Salary\*Duration), Tax (25% of Salary) and use formula for each and lock your form, name the form as “KIM FORM” (05mrks)

d) Insert a footer as your name with form color light green to the above form, a title as KIM INVESTMENTS FORM. (02mrks)

e) Design a query to return all fields as in c above and perform the necessary mathematical expressions to return the actual values. Name it KIM QUERY. (03mrks)

f) Create another query from e above and return only the following fields: Staff No, Name Date of Birth, Salary, Tax to filter out employees who were born before 1995 and name it **BEFORE 1995**. (02mrks)

g) Using the query in e, create a filtered query for employees from BURUNDI and name it as FOREIGNERS. (02mrks)

h) Design a query called RICH for all employees whose tax rate is above 500,000 using the main query you created. (03mrks)

i) Design a report from the FOREIGNERS query and Name it TRANSFERRED. (02mrks)

1. Kisakye Charles General Hardware Mubende has contracted you to design for it a website. Using any available web authoring software design a three page website for this enterprise. Make sure that you site is ***impressive*** and does not take long to download (04 marks)

**Note:** Use Font style Comic Sans Ms for the Marquee, Fuchsia as the Background and a Horizontal Line with height “6” (03 marks)

All pages should have your name bottom right as the owner (02 marks)

1. The **home page** should have the enterprise address, location, staff and the building photograph (04marks)
2. The **services page** should have a bulleted list of all the services offered and other necessary information about the enterprise (03marks)
3. The **queries page** should have a form that a customer can fill in case he / she is making inquiries about the enterprise. (04marks)
4. Use a moving page title on all pages (02marks)
5. Use nice looking navigational Links to all your pages (03marks)
6. Show the contact of the author, copyright and date of publishing (03marks)
7. Save your work as “Kisakye (your Surname) (02marks)
8. In this era of dot com, primary schools, colleges and secondary schools children are suppose to be smart and healthy at schools. Assume you are appointed Health prefect of your school and you are required to make awareness about Personal Hygiene at School;
9. Use suitable presentation software to design a five-slide presentation about Personal Hygiene at schools. Include the following information:
	1. **Slide 1:** The topic, your name and post at school. ***(03 marks)***
	2. **Slide 2**: List any three tasks that an individual can do at school to have the best hygiene. ***(04 marks)***
	3. **Slide 3:** Any three dangers of being unclean at schools.***(04 marks)***
	4. **Slide 4:** Using pyramid Art object, List any three measures to be enforced by schools’ and students’ administrations to restore hygiene in Secondary Schools in Uganda today. ***(05 marks)***
	5. **Slide 5:** Make a summary of the topic.  ***(02 marks)***
10. Insert relevant graphics. ( 2 marks)
11. Use today’s date on each slide. ( 1 mark)
12. Insert slide numbers starting from slide 3. ( 1 mark)
13. Re – arrange slide such that slide 6 comes first. ( 1 mark)
14. Provide a link of your last slide to your first slide in the presentation. ( 2 marks)
15. Apply different designs, animation schemes and transitions, uniform timings to slides in your presentation. (3 marks)
16. Save your work as ‘viruses’ and Print a copy of your slides in handouts format. ( 1 mark)