

840/2
COMPUTER
STUDIES
Paper 2
July/Aug. 2017
2½ hours

Uganda Certificate of Education
PRE-REGISTRATION EXAMINATIONS

COMPUTER STUDIES

Paper 2
2 hours 30 minutes

INSTRUCTIONS TO CANDIDATES

*This paper consists of **two** sections **A** and **B**.*

*Section **A** contains **one compulsory** question.*

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

*Each candidate is provided with a **blank compact disc – recordable**.*

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

*Software help wizards **must not** be used.*

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SECTION A: (40 Marks)

This section is compulsory.

1. (a) Type the following information as it is. Use font 13.5 for the main text and the source font 11.5. Save using your index number. (05 marks)

In today's world, computers are used for almost every task imaginable. Routine activities such as paying bills, buying groceries, or communicating with a friend can be done with a computer. That is why it is important not only to know how to use a computer, but also to understand the components of a computer and what they do.

Recent studies report that almost 40% of homes surveyed have personal computers, and this number is growing. Given the widespread use of computers, computer literacy - a knowledge and understanding of computers and computer uses - has become an essential ingredient in the recipe for success in today's world. Florida was the first state to demand computer literacy of all students by grade 12.

Computers manipulate (process) data (input) to produce information (output) and hold (store) that information for future use. These operations are completed incredibly quickly. Today's supercomputer can perform 1.8 trillion operations per second. If a person did one arithmetic operation a second without stopping, it would take more than 31,000 years to perform the number of operations a supercomputer can do in one second

(Source: *Introduction to Computer Studies for "O" Level pg 60-61*)

- (i) Copy your work and paste on page three of this document. (02 marks)
- (ii) Add a heading 'Computer: Input, Processing, Output, and Storage, centre the heading, double underscore, bold and use 18 font size. (03 marks)
- (iii) Add footer – your name, header – your index number. (02 marks)
- (iv) Insert page numbers using page x of y format centre aligned to the entire document. (02 marks)
- (v) Surround the entire document with a dotted line border. (02 marks)
- (vi) Change the line spacing of first paragraph to 1.5 and of third paragraph 1.15. (02 marks)
- (vii) Set your work on an A5 paper size and print two copies. (02 marks)
- (b) The following information was obtained from Chamuka Secondary School concerning its term budget estimates for Term Three 2016 basing on the projected net income of Ug.Shs. 150,000,000. Use it to attempt the following questions.

Item	Percentage (%)
Maize flour	13
Beans	9
Water and electricity	10
Fire wood	8
Spices	0.3
Stationery	3
Cleaning materials	1
Tools and equipment	3
Creditors and out standing	4.2
Fuel	10.6
Repair and maintenance	0.9
Computers and accessories	2
Allowances	4.1
Salaries	14
Air travel	4
Painting	0.6
Miscellaneous	3
Functions	6
Music and entertainment	1
Video coverage	2
Video coverage	0.3

- (i) Enter the above data on a suitable spreadsheet program of your choice and save as '**Budget**'. (01 mark)
- (ii) After the column for percentage, Create three columns with the following headings: (03 marks)
- **Amount**
 - **Stock level**
 - **Comment**
- (iii) Using the percentages of each item, determine the **amount** attached onto each item as expenditure for the term. (03 marks)

- (iv) 15% of the expenditure includes the amount available in the stores. In the column **stock level**, determine the estimated amount held in stock for the term. (03 marks)

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- (v) Generate a function that automatically provides notification to the store keeper about status of supply as in: **above 80,000, Good stock level; and, below this, Reorder Level.** Auto fill the function in the column with a heading '**comment**' for the rest of the items (03 marks)
- (vi) Create a row with a heading, 'total' and hence, determine the grand total for: (03 marks)
- Amount,
 - Stock level.
- (vii) Using the row for grand totals for amount and stock level only and relevant columnar headings create a 3D pie chart to graphically represent this information.
- (viii) Remember to add footer your name and index number on all your spreadsheet files. (02 marks)

SECTION B (60 MARKS)

*Attempt only **two** questions from this section.*

2. Makindye Mixed farm provides the following data mentioning a range of farm animals and related data. Use it to attempt instructions attached below it.

TABLE ONE: Basic Information

Animal Id	Animal Name	Sex	Date of birth
NMF/001	Waibi	M	13/12/2000
NMF/002	Africa	M	16/08/2000
NMF/003	Small	M	17/02/1999
NMF/004	Kyobika	M	02/04/1999
NMF/005	Lillian	F	04/10/2001
NMF/006	Kafupi	F	27/02/1999
NMF/007	Daudi	M	23/07/2005
NMF/008	Patrick	M	03/06/2004
NMF/009	Aminah	F	09/10/2004
NMF/010	Fridah	F	22/09/2004

TABLE TWO: Other Information

Animal Id	Status	Water consumption(cm³)/day	Weight(kg)
NMF/001	Sickly	12	95
NMF/002	Normal	20	220
NMF/003	Normal	10	455
NMF/004	Normal	42	210
NMF/005	Sickly	65	456
NMF/006	Normal	23	200
NMF/007	Normal	10	654
NMF/008	Sickly	11	321
NMF/009	Normal	14	158
NMF/010	Sickly	23	65

- (a) Create a database using a suitable program and save it as '**mixed farm**'. (02 marks)
- (b) Design the two empty tables and use their table headings as file name for each table and insert a primary key using the field name **Animal Id**. (04 marks)
- (c) Design and use a form to enter data into the table designed in (b) above. (08 marks)
- (d) Create two queries using all field names to attempt the following conditions:
- (i) All animals that were born between 10/09/1999 and 10/12/2004 that are normal and save as 'one'. (05 marks)
- (ii) Animals that have water consumption above 12 cm³ / day and have a weight that is above 200 kgs and save as 'two'. (05 marks)
- (e) Create a simple report to indicate: Animal Id, Animal Name, and Weight, Water consumption and save it as 'report 1'. (06 marks)
3. Using any website authoring software of your choice, create a website that contains:
- (i) Simple Banner reading "Village Community Computer Club" to be included on the homepage. (05 marks)
- (ii) Provide a running marquee holding the motto "together we achieve more". (04 marks)
- (iii) In the shared borders, include Home, Activities, Photo gallery. (04 marks)

- (iv) Provide active link between the three pages of the site. Buttons for next and back need to be included.
(07 marks)
- (v) Include an e-mail tool that enables sending FAQ and inquiry to the webmaster 'kifubangabo@admin.cc'.
(05 marks)
- (vi) Apply an interesting background to the three pages and save as 'community'.
(05 marks)

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4. The Electoral Commission is planning a sensitization of the mass upon the forth coming bi elections for the areas where voting was not done and also for areas where elected members of parliament where disqualified by court on both academic and election malpractice grounds. The Commission is to hold a competition soon this year and you intend to participate. The following details are provided.

Slide one: Introduction to the bi-election.

(05 marks)

Slide two: Persons eligible to vote.

(05 marks)

Slide three: How to validate election registers.

(05 marks)

Slide four: How to avoid vote rigging.

(05 marks)

Slide five: Conclusion.

(05 marks)

Instructions:

- (a) Design a presentation that runs after a single click.
(01 mark)
- (b) Remember to use a uniform background colour for the presentation.
(01 mark)
- (c) Apply relevant fonts, graphics and animations.
(01 mark)
- (d) Add your name as a header.
(01 mark)
- (e) Save your presentation as 'electoralcommission2011'
(01 mark)

END