

S850/2
Subsidiary Information and
Communication Technology
Practical paper
PAPER 2
July/August 2019
2 hours



WAKISSHA JOINT MOCK EXAMINATIONS

Uganda Advanced Certificate of Education

SUBSIDIARY ICT

(Practical)

Paper 2

2 hours

INSTRUCTIONS TO CANDIDATES:

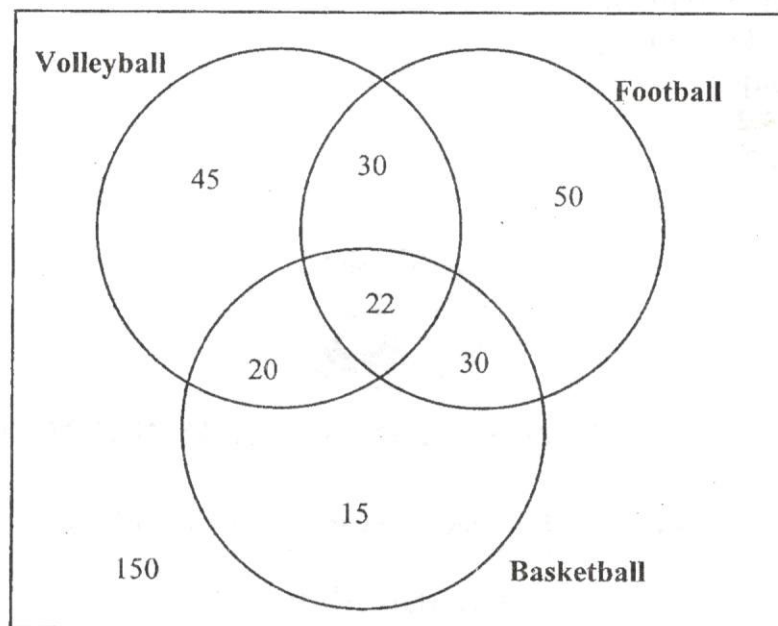
- The paper is made up of **five** equally weighted questions.
- Attempt **any three** questions in this paper.
- Any additional question(s) answered will **not** be marked.
- Each candidate is provided with a new **blank compact disk, Rewritable (CD-RW) AND NOT FLASH DISK.**
- Each candidate **must** produce a **hard copy** for each of the work to accompany the compact disc.
- Create a folder in your name and index number on the desktop where you should keep saving your work. After ensuring that all your work is in the folder transfer it to the CD provided.
- There is no added time for printing and writing CD or saving and printing after the stipulated time.
- Keep on saving your work as no extra time will be provided in cases of power failure.

1. WORD PROCESSING

- (a) Using a suitable word processor of your choice, draw the following Venn diagram as it appears together with accompanying text, on page 1 of the document.

(06 marks)

WHITE BLACK SECONDARY SCHOOL TEAM



- (b) Go to page 2 and type the following mathematical equations:

(i)
$$\int_y^x \cos \lambda(x-t)y(t)dt = f(x)$$
 (02 marks)

(ii)
$$\sqrt{\frac{\sum_0^1 (x+y)^3 + \sum (x-y)^2}{\sum (x+y)}}$$
 (02 marks)

(iii)
$$\begin{pmatrix} 2 & 3 \\ 1 & 0 \end{pmatrix} x \begin{pmatrix} 2 \\ 3 \\ 0 \end{pmatrix} = y/12^2$$
 (02 marks)

(iv)
$$\frac{dy}{dx} = \frac{1}{\left(\frac{dx}{dy}\right)} - \frac{1}{\sqrt{1-x^2}}$$
 (03 marks)

- (v) Insert watermark of your first name on the first page only. (02 marks)

- (vi) Save all the above with a filename "**Mathematical formulas**" in a folder named your full names. (01 mark)

- (vii) Print all your work. (02 marks)

2. SPREADSHEET

Using any Spread sheet program, load the file "**Scores**" and save it as Your name.

(01 mark)

- (i) Copy the work and paste it on Sheet 2, rename sheet 1` and sheet 2 as "**Original**" and "**Duplicate**" respectively. (01 mark)

- (ii) On a duplicate sheet, insert a new row above the text and type the following labels, Name in cell A1, MTC in B1, ART in C1, CHEM in D1, BIO in E1, TOTAL in F1, AVERAGE in G1, POSITION in H1 and remarks in I1. (02 marks)
- (iii) Calculate the Total marks and average scores for each student. (02 marks)
- (iv) Use a suitable function to generate the position for each student basing on the total marks for each student following the order of ascending. (02 marks)
- (v) The table below shows the interval score for average marks and the comments. Use VLOOKUP to assign comments in the remarks column. (02 marks)

Average score	Comments
0-49	FAIL
50-74	PROBATION
75-100	PASS

- (vi) Sort the data in ascending order by name. (01 mark)
- (vii) Sum up the total marks scored by all students in MTC, ART, CHEM, and BIO. (02 marks)
- (viii) Switch your duplicate sheet to a **formulae view** and capture the screen shot. Save the screen shot as evidence document in your folder. (02 marks)
- (ix) Use the sums obtained in (Vii) above to create a well labeled pie chart showing the subject performance on sheet 3, rename the sheet as CHART. (03 marks)
- (x) Add your name as footer on your worksheet. (01 mark)
- (xi) Print your work. (01 mark)

3. PRESENTATION

As a computer literate student, you are to prepare a five slide presentation about "Information Processing Cycle".

- Slide I The topic to be discussed, its definition and the name of the presenter. (02 marks)
- Slide II Make a data processing cycle flow chart for INPUT, PROCESSING, OUTPUT AND STORAGE (03 marks)
- Slide III A two column table to display four input and output (02 marks)
- Slide IV The school has spent the amount of money below for software related services. Make a graphical illustration (column) of the amount spent on the following services. (03 marks)
- | ITEMS | Term I | Term II |
|---------------|---------|---------|
| Servicing | 200,000 | 120,000 |
| Report making | 210,000 | 350,000 |
| Security | 30,000 | 20,000 |
| Internet | 450,000 | 340,000 |
- Slide V Merits of using computerized information processing systems. (02 marks)
- Apply a uniform design for the slides. (01 mark)
 - Apply transitions and animations on your slides. (02 marks)
 - Insert a footer of your name and clip art of your choice. (01 mark)
 - Add an action button on the first slide to link on the last slide. (02 marks)
 - Set the show to run continuously till escape. (01 mark)
 - Save your work as "your name". (01 mark)

Turn Over

4. DATABASE

Below is a table showing data about fees payments of students of PEP Secondary School. Using database software of your choice;

Index	Name	Date of Birth	Term I Fees	Amount Paid
P01	Katwe	2/3/2005	730,000	250,000
PE01	Kigooli	4/4/1999	750,000	287,000
PE02	Nalanga	7/4/2007	750,000	450,000
P02	Waiswa	12/2/2001	730,000	240,000
P03	Opiko	9/7/2000	730,000	510,000
PE03	Kubwene	5/9/2004	750,000	340,000
P04	Kalisema	3/6/2002	730,000	213,000
P05	Taliba	9/4/1999	730,000	230,000
P06	Babirye	1/3/2000	730,000	370,000
PE04	Gawola	3/7/2001	750,000	476,000

- (i) Create a database called PEP-Your name (01 mark)
- (ii) Create a table structure for the table above assigning it with appropriate data-types and primary key. All fees amount must have a "UGX" sign visible. (03 marks)
- (iii) Create a **Form** and use it to populate the table above. Save the form as Fees Form. Add your name and current date and time as footer to the form. (03 marks)
- (iv) Create a query that can return all students with their fees balances. Save the query as Balance. (03 marks)
- (v) Create another query having all fields displaying students whose names begin with letter K. save the query as K. (02 marks)
- (vi) Create another query displaying all fields and students who are 16 years and below. Save it as sixteen. (03 marks)
- (vii) Create a report using fields from the Balance query, save it as Balance Report (03 marks)
- (viii) Print all your work (02 marks)

5. DESKTOP PUBLISHING

Using any publication software, design a business card using the details below: (5 marks)

Company name: WATGWANG INTERNATIONAL LTD, P.O BOX 111 KAMPALA
TEL: 078 525 652
+2547089179

TITLE: MANAGER
CARD OWNER: USE YOUR NAME
DEALERS IN: TECHNOLOGY, COMPUTERS
EMAIL: watgwang@yahoo.com

Additional information

- (i) Use a blank publication to design the above document.
- (ii) Adjust the orientation to potrait. (2 marks)
- (iii) Insert a logo "JPG" in the top right corner. (2 marks)
- (iv) Make six identical cards per page in your publication. (3 marks)
- (v) Insert **htl** picture from support folder behind the text. (2 marks)
- (vi) Apply word art to your comapny name. (2 marks)
- (vii) Apply attractive font color,font styles and design. (2 marks)
- (viii) Save your work as school and print. (2 marks)

END