S840/2
Subsidiary ICT
PAPER 2
JULY/AUG 2024
2 HOURS

AITEL JOINT MOCK EXAMINATIONS.

Uganda Advanced Certificate of Education

SUBSIDIARY ICT

Paper 2

2 hours

INSTRUCTIONS TO CANDIDATES:

This paper is made up of five equally weighted questions.

Answer any three questions.

Any additional question(s) answered will not be marked.

Each candidate is provided with support files where applicable to supplement the questions.

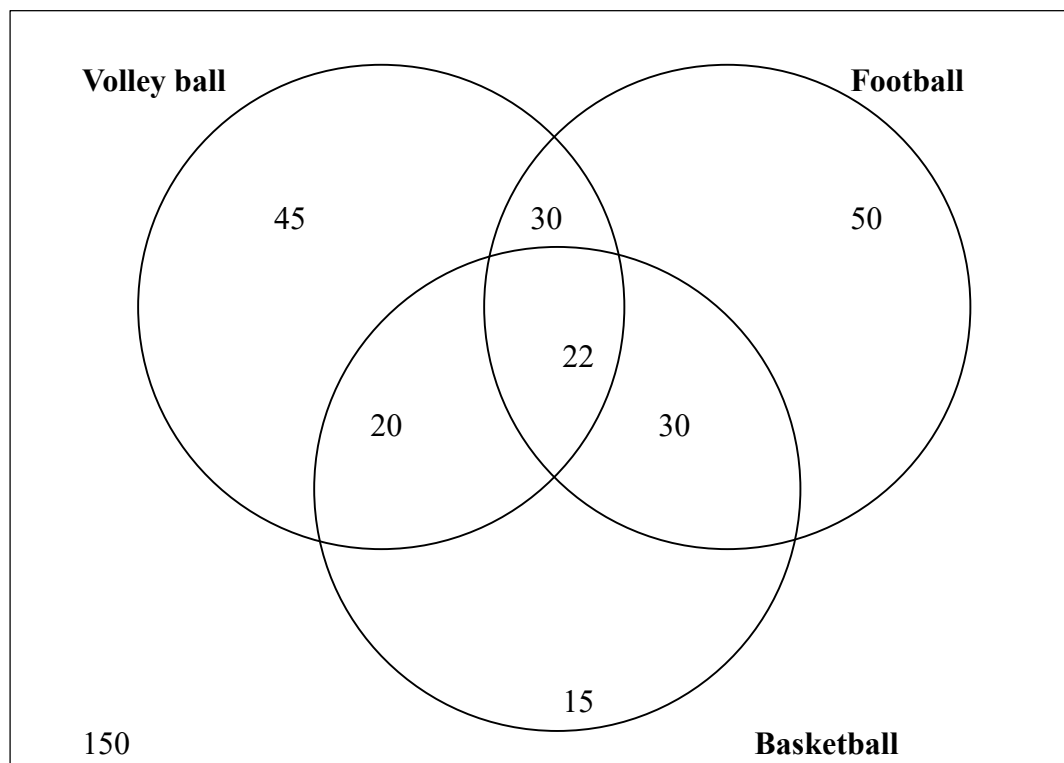Each candidate is provided with a new blank Compact Disc (CD).

Candidates should continuously save their work.

Each candidate must produce a hard copy for each of their work to accompany the Compact Disc (CD).

Answer any three questions in this paper

1. 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.   (06mrks)

WHITE BLACK SECONDARY SCHOOL TEAM

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

i) $\int\limits_{y}^{x} \cos\lambda(x-t)\,y(t)\,dt = f(x)$ (02mrks)

ii) $\sqrt{\dfrac{\sum\limits_{0}^{1}(x+y)^3 + \sum(x-y)^2}{\sum(x+y)}}$ (02mrks)

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

iv) $\dfrac{dy}{dx} = {1}\Big/{\left(\dfrac{dx}{dy}\right)} - \dfrac{1}{\sqrt{(1-x^2)}}$ (03mrks)

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

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

vii) Print all your work.   (02mrks)

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2. a) Using spread sheet software of your choice, load the file my stock and save it as your name and personal number. (02mrks)

    b) Format the currency values to Uganda shillings, using the symbol UgX. (02mrks)

    c) Type the following labels in the cells: (02mrks)

    A15   Total sales

    A16   Highest sales

    A17   Lowest sales

    A18   Average sales

    d) Type the column titles SALES in cell D1 and COMMISSION in the cell E1 (01mrk)

    e) Use appropriate formulas to calculate:
    i)   The SALES for each item. (02mrks)
    ii)   Total sales for all items. (02mrks)
    iii) The Highest sales, Lowest sales and Average sales. (03mrks)
    iv) The COMMISSION at 5% of the sales, given to the sales person. (02mrks)

    f) Insert a row at the top of the worksheet and enter a suitable heading for the data. (02mrks)

    g) Insert the current date and time in the footer. (01mrk)

    h) Save and print your work. (01mrk)

3. 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. (02mrks)

    Slide II   Make a data processing cycle flow chart for INPUT, PROCESSING, OUTPUT and STORAGE (03mrks)

    Slide III   A two column table to display four Input and Output devices (02mrks)

    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.

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 (02mrks)

    a) Apply a uniform design for the slides (01mrk)
    b) Apply transitions and animations on your slides. (02mrks)
    c) Insert a footer of your name and a clip art your choice (01mrk)
    d) Add an action button on the first slide to link on the last slide. (02mrks)
    e) Set the show to run continuously till escape. (01mrk)
    f) Save your work as "your name" (01mrk)

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4. 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	Ochan	2/3/2005	730,000	250,000
PE01	James	4/4/1999	750,000	287,000
PE02	Ssemakula	7/4/2007	750,000	450,000
P02	Martin	12/2/2001	730,000	240,000
P03	Opio	9/7/2000	730,000	510,000
PE03	Kasibante	5/9/2004	750,000	340,000
P04	Kalvin	3/6/2002	730,000	213,000
P05	Tabisa	9/4/1999	730,000	230,000
P06	Beatrice	1/3/2000	730,000	370,000
PE04	Gwetala	3/7/2001	750,000	476,000

i) Create a database called PEP-Your name (01mrk)

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. (03mrks)

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. (03mrks)

iv) Create a query that can return all students with their fees balances. Save the query as Balance. (03mrks)

v) Create another query having all fields displaying students whose names begin with letter K. Save the query as K. (02mrks)

vi) Create another query displaying all fields and students whore are 16 years and below. Save it as sixteen. (03mrks)

vii) Create a report using fields from the Balance query, save it as Balance report (03mrks)

viii) Print all your work (02mrks)

5. Using any publication software, design a business card using the details below: (05mrks)

Company name: RWAKO INTERNATIONAL LTD, P.O BOX 23 GULU
TEL: 0777745312
+2537055618

TITLE: MANAGER
CARD OWNER: USE YOUR NAME
DEALERS IN: TECHNOLOGY, COMPUTERS
EMAIL: rwako81@gmail.com

Additional information

i) Use a blank publication to design the above document

ii) Adjust the orientation to portrait (02mrks)

iii) Insert a logo "JPG" in the top right corner. (02mrks)

iv) Make six identical cards per page in your publication. (03mrks)

v) Insert htl picture from support folder behind the text. (02mrks)

vi) Apply word art to your company name (02mrks)

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vii)   Apply attractive font color, font styles and design.   (02mrks)

viii) Save your work as school and print.   (02mrks)

END