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**

![Venn Diagram]

(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) \[ \sqrt{\sum_{0}^{1} (x+y)^3 + \sum(x-y)^2} \] (02 marks)

(iii) \[ \begin{pmatrix} 2 & 3 \\ 1 & 0 \end{pmatrix} \begin{pmatrix} 2 \\ 3 \end{pmatrix} = y/ 12^2 \] (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.

(i) Copy the work and paste it on Sheet 2, rename sheet 1 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)

<table>
<thead>
<tr>
<th>Average score</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>0-49</td>
<td>FAIL</td>
</tr>
<tr>
<td>50-74</td>
<td>PROBATION</td>
</tr>
<tr>
<td>75-100</td>
<td>PASS</td>
</tr>
</tbody>
</table>

(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 \textit{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)

<table>
<thead>
<tr>
<th>ITEMS</th>
<th>Term I</th>
<th>Term II</th>
</tr>
</thead>
<tbody>
<tr>
<td>Servicing</td>
<td>200,000</td>
<td>120,000</td>
</tr>
<tr>
<td>Report making</td>
<td>210,000</td>
<td>350,000</td>
</tr>
<tr>
<td>Security</td>
<td>30,000</td>
<td>20,000</td>
</tr>
<tr>
<td>Internet</td>
<td>450,000</td>
<td>340,000</td>
</tr>
</tbody>
</table>

Slide V Merits of using computerized information processing systems. (02 marks)

a) Apply a uniform design for the slides. (01 mark)

b) Apply transitions and animations on your slides. (02 marks)

c) Insert a footer of your name and clip art of your choice. (01 mark)

d) Add an action button on the first slide to link on the last slide. (02 marks)

e) Set the show to run continuously till escape. (01 mark)

f) Save your work as “your name”. (01 mark)

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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:

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

(i) Create a database called PEP-Your name  
(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.  
(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.  
(iv) Create a query that can return all students with their fees balances. Save the query as Balance.  
(v) Create another query having all fields displaying students whose names begin with letter K. save the query as K.  
(vi) Create another query displaying all fields and students who are 16 years and below. Save it as sixteen.  
(vii) Create a report using fields from the Balance query, save it as Balance Report  
(viii) Print all your work

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 portrait.  
(iii) Insert a logo “JPG” in the top right corner.  
(iv) Make six identical cards per page in your publication.  
(v) Insert html picture from support folder behind the text.  
(vi) Apply word art to your company name.  
(vii) Apply attractive font color, font styles and design.  
(viii) Save your work as school and print.

END