WESTERN ZONE JOINT EXAMINATIONS - 2013
(WEZOJE)
Kenya Certificate of Secondary Education (K.C.S.E)

INSTRUCTIONS TO CANDIDATES
• Write your name and index Number at the top hand corner of each printout
• Write the name and version of the software used for each question attempted in the answer sheet.
• Answer ALL questions.
• All questions carry equal marks.
• Hand in all the printouts and the softcopy of the work on CD.

This paper consists of 4 printed pages.
Candidates should check the question paper to ensure that all pages are printed as indicated and no questions are missing.
1. Design a newspaper publication to appear as indicated in the next page using the following instructions.

   a) Launch the DTP package and set the preference measurements to centimeters and the document margins to 2cm on all sides. (2marks)

   b) The heading “Digital Bulletin” to have the following: (4marks)

      - Centered across the page
      - Font face: Arial
      - Font size: 20
      - Background colour: Grey

   c) The other two headings in the publication to have the styles:

      - Font face: Arial narrow
      - Font size: 20
      - Text weight: Bold
      - Alignment: Centered across the page (5marks)

   d) The text under the heading “Basic networking and connectivity” to be in three columns and having the following styles. (20marks)

      - Font size: 14
      - First character of the paragraph to have 3 lines drop cap
      - Hyphenation: Disabled
      - Fully justified.

   e) The text under heading “Antivirus Information Corner” to be in single column. (3marks)

   f) Design the Mercury Digishop advertisement in the position shown (10 marks)

   g) Insert the two lines of 4 and 0.75 points respectively in their position. (3marks)

   h) Print the publication (1mark)

   i) Print the worksheet and the graph (2marks)
Digital bulletin

Basic Networking and Connectivity

The ability to expand beyond the limit of the single computer in a single office has extended the reach of the PC to global proportions. Two technologies had driven this expansion; a computer network and the global network known as the internet.

A network is defined as two or more computers linked together for the purpose of communicating and sharing information and other resources. Most networks are constructed at round cable connection that links computers. This connection permits the computers to talk (and listen) through a wire. More recently, a number of wireless solutions have become available. Infrared ports, Bluetooth, Radio links and other protocols allow variety of new devices to link with PCs in order for the network to function; three basic requirements must be met:

- The network must provide connections, communication and services.
- Connecting include the hardware (physical components) required to hook up a computer to the network.
- Communication establishes the rules concerning how computers talk and understand each other. Computers often run different software and therefore they must speak a share language.
- A service defines those things a computer shares with the rest of the network. For example, a computer can share a printer, directories or files. Unless computers on the network are capable.

Antivirus information centre

Viruses are small programs that hide themselves on your disks (diskettes and hard disks). Unless you use virus detection software the first time that you have a virus is when it is active. Different viruses are activated in different ways, for instance, the famous Friday 13th virus will activate only when it is both a Friday and the 13th of the month. Be aware, virus can destroy all your data.
2. The Central Bank of Kenya (CBK) exchange rates on certain day for foreign currencies against the Kenya shilling (Kshs.) were as follows:

<table>
<thead>
<tr>
<th>Currency</th>
<th>CBK mean rate (Kshs.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1US Dollar</td>
<td>67.0222</td>
</tr>
<tr>
<td>1 Sterling Pound</td>
<td>137.7984</td>
</tr>
<tr>
<td>1 Euro</td>
<td>96.6552</td>
</tr>
<tr>
<td>1 S.A Rand</td>
<td>10.3100</td>
</tr>
<tr>
<td>1 Swedish Kroner</td>
<td>10.4509</td>
</tr>
</tbody>
</table>

Kariuki, Hamisi, Mbugua, Otieno and Nekesa trade in buying and selling of foreign currencies.

On that day, they bought the following foreign currencies from CBK:

<table>
<thead>
<tr>
<th>Name</th>
<th>US Dollars</th>
<th>Sterling Pound</th>
<th>Euros</th>
<th>S.A Randus</th>
<th>Swedish Kroner</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kariuki</td>
<td>400</td>
<td>200</td>
<td>340</td>
<td>1200</td>
<td>290</td>
</tr>
<tr>
<td>Hamisi</td>
<td>500</td>
<td>400</td>
<td>400</td>
<td>2000</td>
<td>3000</td>
</tr>
<tr>
<td>Mbugua</td>
<td>200</td>
<td>600</td>
<td>300</td>
<td>4000</td>
<td>5000</td>
</tr>
<tr>
<td>Otieno</td>
<td>600</td>
<td>200</td>
<td>200</td>
<td>1000</td>
<td>3000</td>
</tr>
<tr>
<td>Nekesa</td>
<td>400</td>
<td>600</td>
<td>600</td>
<td>2000</td>
<td>1000</td>
</tr>
</tbody>
</table>

They sold their foreign currencies at the following rate:

<table>
<thead>
<tr>
<th>Name</th>
<th>US Dollars</th>
<th>Sterling pound</th>
<th>Euros</th>
<th>S.A Randus</th>
<th>Swedish Kroner</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kariuki</td>
<td>70.50</td>
<td>139.0</td>
<td>96.7910</td>
<td>10.4213</td>
<td>10.6725</td>
</tr>
<tr>
<td>Hamisi</td>
<td>69.00</td>
<td>138.5</td>
<td>96.79</td>
<td>10.5712</td>
<td>10.2676</td>
</tr>
<tr>
<td>Mbugua</td>
<td>70.00</td>
<td>141.5</td>
<td>96.76</td>
<td>10.3974</td>
<td>10.7432</td>
</tr>
<tr>
<td>Otieno</td>
<td>69.55</td>
<td>139.0</td>
<td>96.80</td>
<td>10.6371</td>
<td>10.5942</td>
</tr>
<tr>
<td>Nekesa</td>
<td>69.50</td>
<td>138.5</td>
<td>96.40</td>
<td>10.7218</td>
<td>10.6155</td>
</tr>
</tbody>
</table>

a) Using a spreadsheet package, represent the information in one worksheet and save it as FOREX. (14 marks)

b) Using formulae with absolute and relative cell references, determine the total profit made by each trader. (14 marks)

c) Format the profit for each trade to zero decimal places. (3 marks)

d) Create a well labeled bar graph on a different worksheet showing the cost incurred on buying US Dollars by each trader. (14 marks)

e) Use a function to determine the trader who got the highest profit (3 marks)

f) Format the first table as follows:

- Set the direction of the labels to 45° (2 marks)