2014 HIGHER SCHOOL CERTIFICATE EXAMINATION

Information and Digital Technology
Web and Software Applications

Section II

30 marks
Attempt Questions 21–25
Allow about 40 minutes for this section

Answer the questions in the spaces provided. These spaces provide guidance for the expected length of response.

Question 21 (6 marks)

(a)   Why are power leads tagged?   2

Power leads are tagged to show and ensure that they work and pose no immediate threat such as damaged insulation

(b)   Describe how a workstation can be set up to minimise neck, back and wrist pain.   4

To minimise neck, back and wrist pain everything that is used frequently should be within arms length to ensure no stretching is required to complete everyday tasks. The seat and monitor should be adjusted to appropriate heights to reduce neck and back injury. The height of the seat relative to the desk can also help reduce wrist injury.

Question 22 (4 marks)

This diagram shows the home page for the 'BullsEye' operating system.

(a) Identify TWO key features that define BullsEye O.S. as open source software.   2

This is open source because it was made by a collaborative community and also the source code is available free of charge.

(b) Outline a procedure for installing BullsEye O.S. using the ISO image from this website.   2

The ISO could be downloaded onto a U.S.B. This USB will then be set as the boot drive/media in the BIOS.

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Section II (continued)

Question 23 (5 marks)

(a)   Why is it NOT necessary to run a disk defragmenting utility on a solid state   **1**
drive?

*This is unecessary as SSD's are not
disk's they are RAM, this will break
on SSD.*

(b)   The following is part of a server backup log from a small business.   **4**

Date	Backup type	Media type	Media ID	.	Verified
3/10/2014	Full	HDD	131003–A 131003–B		✓
6/10/2014	Incremental	Cloud	131006–A		✓
7/10/2014	Incremental	Cloud	131007–A		✓
8/10/2014	Differential	DVD	131008–A		✓
9/10/2014	Incremental	Cloud	131009–A		✓

Using the information in the backup log, describe and justify the most efficient
procedure for restoring the full system in the event of a hardware failure on
10/10/2014.

*The best way would be to restore
it from the 3/10/2014 backup as
it was a full backup that has
two copies on a hard drive.
If one HDD was corrupt the
other can still be used.*

Question 24 (6 marks)

(a) Using an example, distinguish between a formula and a function in a spreadsheet.   2

A formula is the actual formula used while the function is how and when the formula is used.

(b) Describe file management functions that need to be implemented to ensure that a confidential document can only be accessed by authorised users and that the document is up to date.   4

Firstly for confidentiality the document can be encrypted or passworded. For information about if it is up to date you can check when it was last edited. You could also create a log that people need to fill out summarising the changes they made.

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Section II (continued)

Question 25 (9 marks)

(a)   What is a benefit of using cascading style sheets (CSS) in website development?   1

If you change the original or template layout it will update the other pages

(b)   Why is it useful for a web author to understand coding as well as WYSIWYG   2
authoring?

Both are useful as the employee needs to know how to code but they also need to know how WYSIWYG want to present themselves

Question 25 continues on page 14

Question 25 (continued)

(c)   This is the source code for a webpage.

```
<!DOCTYPE html>
<html lang="en">

<head>
<title>My Holiday</title>
</head>
<body style="background-color:yellow; font-family:arial;">

<h1>My Holiday</h1>
<p>We went to <strong><em>Hawaii</em></strong> by plane, then cruised to 4
<Strong><em>Tahitian islands</em></strong> on a cruise boat</p>
<p>We came back to Sydney on the cruise boat which was very
<em>relaxing</em></p>

    <h2>Oahu Hawaii</h2>
    <p>In Hawaii we stayed on the Island of Oahu</p>
    While in Oahu we visited the following places<br />
    <ul>
        <li><strong>Honolulu</strong>, Capital of Hawaii</li>
        <li>Pearl Harbour</li>
        <li> "USS Arizona" Monument</li>
        <li><p>
        <img src = "arizonamonumentsmall.png"
            alt = "USS Arizona monument" />
        </p></li>
        <li>Waikiki Beach</li>
        <li>Diamond Head</li>
        <li>Sunset Beach</li>
        <li>Waimea Bay</li>

    </ul>

<h6>copyright : GS. October 2014</h6>
</body>
</html>
```

Question 25 (continued)

Draw the webpage as it would appear in a browser based on the given code. You may use text to describe features you cannot draw.   6

My Holiday   (Yellow background)
        (Arial font)

My Holiday ‹h1›
        (bold)
We went to Hawaii (by) plane, then cruised to 4 Tahitian islands on a cruise boat

We came back to Sydney on the cruise boat which was very relaxing. (bold)

Oahu Hawaii ‹h2› (bold)
In Hawaii we stayed on the island of Oahu

While in Oahu we visited the following places: (bold)

- Honolulu, capital of Hawaii
- Pearl Harbour
- "USS Arizona monument"
-
    Image - USS Arizona mon

- Waikiki Beach
- Diamond Head
- Sunset Beach
- Waimea Bay

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End of Question 25