

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

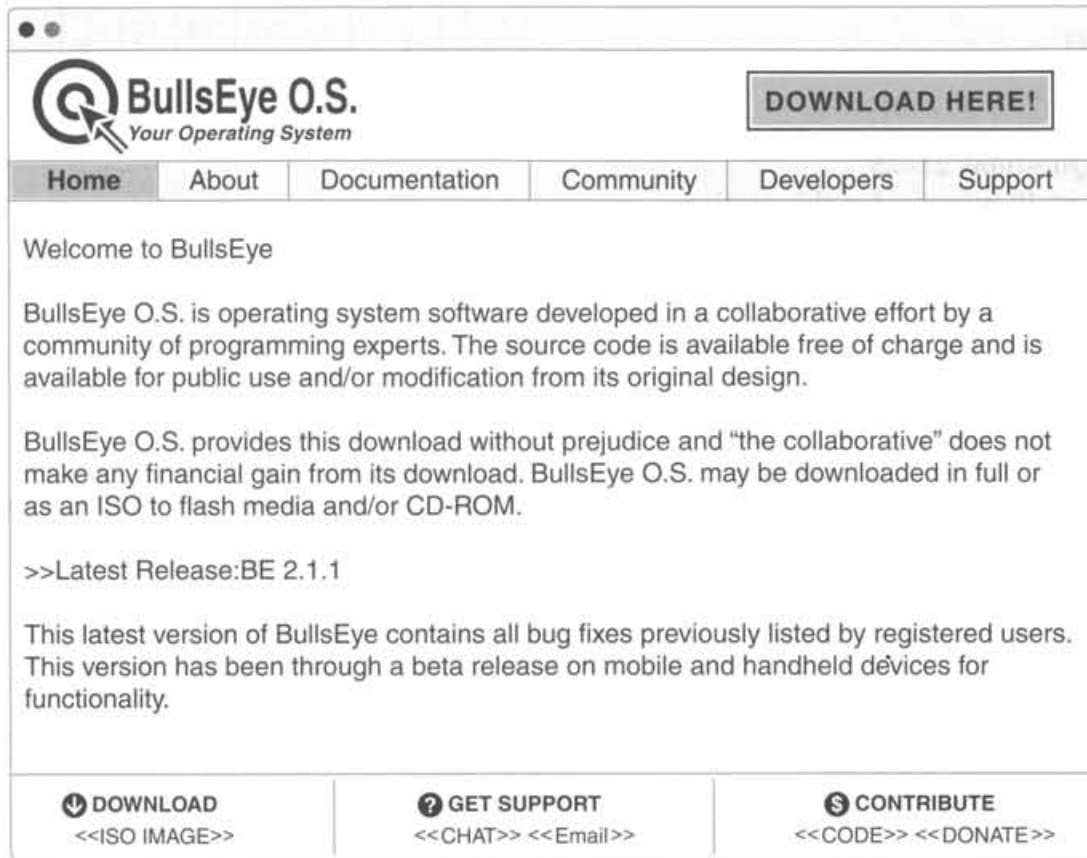
to outline specifics such as
Date it was serviced, who
serviced it and to show it
is usable and in fact.

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

workstations following an
ergonomical structure minimises
user strain. Having the monitor
at eye level reduces neck
strain. Positioning the chair
half a metre away ~~and~~ from
the table and adjust ~~the~~ the
back so its upright and feet
firmly on the floor. Having elbows
at 90° and ~~the~~ wrist placed
flat against the keyboard/mouse
all helps in order to minimise
strain. along with regular breaks
from the computer and stretches
before & after using.

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

1. Bottom left corner gives you the option to code & Donate.
 2. The developers tab on the NAV Bar
 3. It's "source code" is free and available for public use and modification.

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

installing it on flash drive or disk, restarting computer with disk/flash drive inserted and entering bios ~~to~~ ~~mounting the ISO to~~ entering bios and select "boot from usb/disk" and following installation method to complete the installation.

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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 drive? 1

Solid state drives cant be un organised where HDD can be.

- (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.

Start by using the full backup on HDD will allow for more secure restore, followed by this the differential backup from DVD as it will update changes in between 3/10 - 7/10 and finally restoring the incremental backup via the cloud as a final means of re securing all lost data.

Question 24 (6 marks)

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

A formula uses data entered to relay ~~or~~ more or calculated data in ~~at~~ another cell where functions alter data using pre existing information e.g. formula to calculate cell B3 * B4 ~~or~~ function to change text font.

- (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

Having restricted folders that require passwords ~~or~~ ~~or~~ or even a particular account that can ~~at~~ only access it ensures that confidential documents don't get incorrectly accessed. Similar to how schools block access to folders for students but teachers can access/edit them.

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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**

It reduces clutter on the actual page and can be called upon

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

separate. A large amount of styles can be added into a page using one line of code. It allows ~~deeper~~ better and more structured code as well as adding to functionality of the web page. Some elements of

web design require both code and wysiwyg in order to

Question 25 continues on page 14

complete the task. For example altering Spry widgets beyond the programs limitations requires coding knowledge.

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>

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</body>
</html>

```

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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

Browser Tab / Title

My Holiday ←

My Holiday^{H1} *Bold, italics*

we went to Hawaii ↓ by plane, then
cruised to 4 Tahitian Islands. on a boat


We came back to Sydney on the cruise
boat which was very relaxing ← italics

Oahu Hawaii ← H2

in Hawaii we stayed on the island
Oahu

while in Oahu we visited the following Places

Break

- Honolulu, Capital of Hawaii ← Bold
- Pearl Harbour
- "USS Arizona Monument" * yellow Background
-  if it doesn't load "USS Arizona Monument" will be displayed * Arial font
- Waikiki Beach
- Diamond Beach
- Sunset Beach
- Waimea Beach

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End of Question 25