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.

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**Question 21** (6 marks)

(a)    Why are power leads tagged?                                                                  2

> Power leads are tagged so that people know
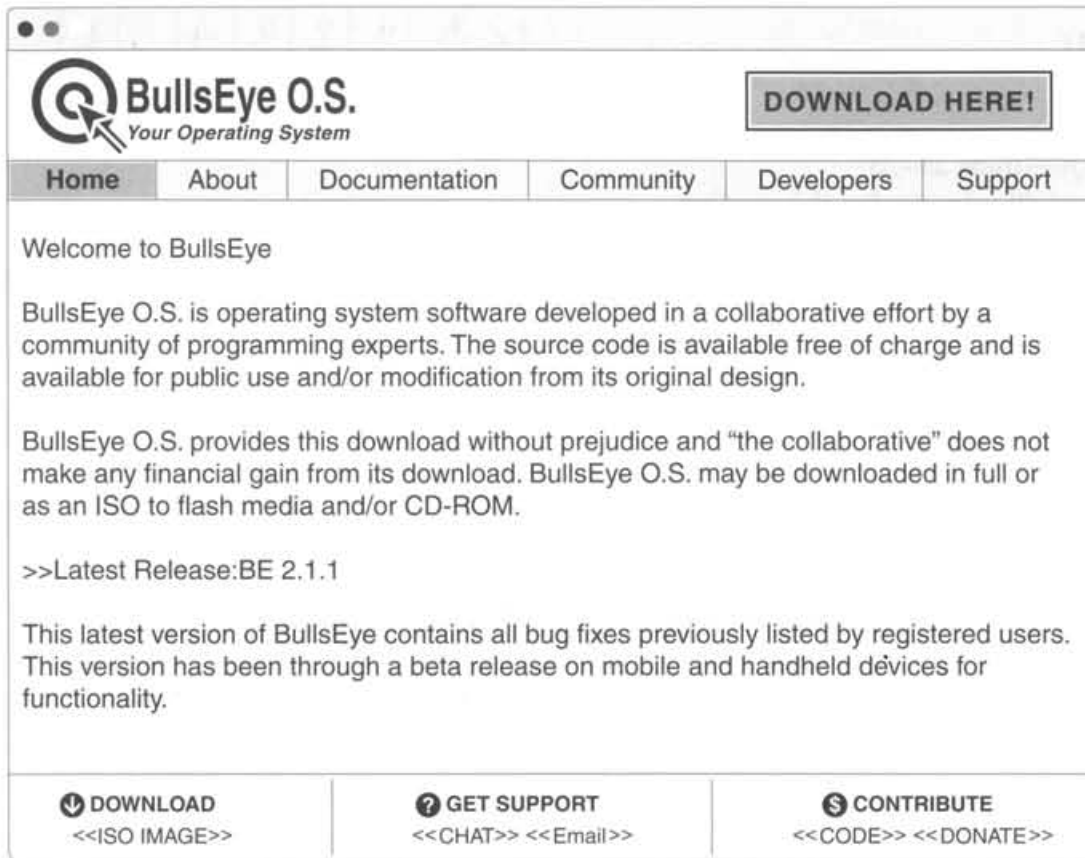> that they have been tested and are safe
> to use.

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

> A workstation can be set up to minimise
> neck, back and wrist pain by providing a
> ~~chair~~ seat that can be adjusted to the
> persons needs. You could also adjust the
> table to the correct height on the
> persons which to prevent it from hurting.

**Question 22** (4 marks)

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

```
● ●
  Q  BullsEye O.S.                          DOWNLOAD HERE!
     Your Operating System
  ┌──────┬───────┬──────────────┬───────────┬────────────┬─────────┐
  │ Home │ About │ Documentation│ Community │ Developers │ Support │
  └──────┴───────┴──────────────┴───────────┴────────────┴─────────┘

  Welcome to BullsEye

  BullsEye O.S. is operating system software developed in a collaborative effort by a
  community of programming experts. The source code is available free of charge and is
  available for public use and/or modification from its original design.

  BullsEye O.S. provides this download without prejudice and "the collaborative" does not
  make any financial gain from its download. BullsEye O.S. may be downloaded in full or
  as an ISO to flash media and/or CD-ROM.

  >>Latest Release:BE 2.1.1

  This latest version of BullsEye contains all bug fixes previously listed by registered users.
  This version has been through a beta release on mobile and handheld devices for
  functionality.

  ─────────────────────────────────────────────────────────────────────────────
   ◉ DOWNLOAD              ❓ GET SUPPORT               Ⓢ CONTRIBUTE
   <<ISO IMAGE>>           <<CHAT>> <<Email>>          <<CODE>> <<DONATE>>
```

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

> The download and Get Support options tell us
> that it is an open source website.

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

> If you have a CD-Rom or flash drive,
> use those to copy/download the ISO image
> on to.

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## Information and Digital Technology
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**Section II (continued)**

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**Question 23** (5 marks)

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

*It is not necessally to run a disk defragenting utility on a solid state drive because it is automatically done for it.*

(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.

*Use HDD to backup the full system using Media ID 131003-A and 131003-B. After you have done this ensure that the process has come up as verified.*

**Question 24** (6 marks)

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

A formula in a Spreadsheet is what you use
to calculate the total, for example, sum(A1:A2).
A function is an action such as File, Save as

(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**

File Management functions are those that make
sure that only certain people can read them.
The Personize button should be there to set up
a password that only relevent people /
authorised people have access to.

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# Information and Digital Technology
## Web and Software Applications

**Section II** (continued)

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**Question 25** (9 marks)

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

The benefit of using CSS in website development
is that it is easy to format.

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

It is useful for a web author to understand
coding so that the person has an idea
of what they need to do.

**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          **6**
use text to describe features you cannot draw.

My Holiday
Yellow background colour with Arial font.


My Holiday
We went to Hawaii by plane, the cruised to 4 Tahitian islands
on a Cruise boat

We came back to Sydney on the Cruise boat which was
Very relaxing.


Oahu Hawaii
In Hawaii we stayed on the Island of Oahu
while in Oahu we visited the following places

Diamond Head          Sunset Beach          Waimea Bay

Waikiki Beach


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**End of Question 25**