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SUBJECT:	<b>Information Technology</b>
PAPER NUMBER:	Controlled – Unit 2
DATE:	29 <sup>th</sup> May 2018
TIME:	10:00 a.m. to 11:35 a.m.

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**THIS PAPER SHOULD BE RETURNED TO THE INVIGILATOR  
AFTER THE EXAMINATION.**

**Name of candidate** \_\_\_\_\_

**I.D. number** \_\_\_\_\_

**School** \_\_\_\_\_

**Class** \_\_\_\_\_

**Notes to Students:**

- Answer **ALL** questions in the space provided.

**Scenario**

The owners of Elite Force, a manufacturing company, have decided to start producing their own adverts for their many product lines. They have asked for your help in understanding the different multimedia systems they could use and what they need to know to ensure that the adverts are a success.

**Question 1**

**K1 (4 marks)**

The Elite Force owners are still unsure about which multimedia systems to use. Help them by describing the following systems:

a. Simulations:

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(1)

b. CAD:

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(1)

c. CBT:

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(1)

d. Information kiosks.

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(1)

**Question 2**

**K2 (4 marks)**

Elite Force needs help to understand the different multimedia components and their different file formats. Place the given file formats in the correct category.

jpeg, gif, mp3, flac, avi, pdf, h.264, swf, png, ogg, flv, tiff, mp4, swi, mkv, vob

Images	Audio	Video	Animation

**Question 3**

**K3 (4 marks)**

While the Elite Force owners now better understand the different image file formats, they are still struggling to relate them to the many technical terms used to describe various characteristics of the file. Write down **TWO** correct qualities from the list provided next to **each** file format.

lossy, lossless, raster, vector

a. BMP:		
b. JPEG:		
c. PDF:		
d. PNG:		

***Please turn the page.***

**Question 4**

**K6 (4 marks)**

Underline the correct characteristic for each of the sentences below to help Elite Force also understand the different video file formats and their characteristics.

- a. WMV files are **smaller/larger** than AVI files. (1)
- b. H.264 and MKV are both **lossy/lossless** file formats. (1)
- c. AVI videos have **better/worse** quality than MP4. (1)
- d. MPEG is a **lossy/lossless** file format. (1)

**Question 5**

**K7 (4 marks)**

Elite Force has asked for your assistance in learning the different terminology related to audio. Provide a definition for the following terms:

a. Bass;

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(1)

b. Mixing;

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(1)

c. Amplification;

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(1)

d. Compression.

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(1)

**Question 6**

**K8 (4 marks)**

Provide a definition for the following terms in order to help Elite Force better understand video:

a. Transition;

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(1)

b. Wipe;

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(1)

c. Sequence;

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(1)

d. Fade in/ Fade out.

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(1)

**Question 7**

**K10 (4 marks)**

The Elite Force owners do not know why it is better to use CSS with HTML. Mark with a ✓ from the following list, the sentences which explain the advantages of using CSS with HTML.

a.	CSS makes it easier to maintain websites.	
b.	CSS is used to structure the website while HTML is used for its presentation.	
c.	Using CSS with HTML makes designing websites more consistent.	
d.	It is easier to update code that uses internal CSS.	

***This question continues on next page.***

e.	CSS provides more formatting options than HTML on its own.	
f.	CSS can be used both within the HTML code (internal) as well as a separate file (external).	
g.	All CSS code is supported by all the browsers.	
h.	Internal CSS is preferred to external CSS.	

**Question 8**

**C3 (6 marks)**

Elite Force has decided to create their first video advert. They are considering uploading the video to YouTube to reach as many people as possible. Help them pick the right video and audio format for their advert.

a. Which video file format is compatible with YouTube?

\_\_\_\_\_ (1)

b. Justify your answer to question 8a, by providing **ONE** valid reason for your choice.

\_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_ (1)

c. The best aspect ratio for YouTube would be 16:9. Explain what would happen if Elite Force decides to upload a video with a different aspect ratio.

\_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_ (2)

d. YouTube accepts audio in both MP3 and AAC format. Which one is best?

\_\_\_\_\_ (1)

e. Provide **ONE** valid reason for your answer in question 8d.

\_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_ (1)

**Question 9****C5 (6 marks)**

You have produced the following HTML code as a sample to show to the directors of Elite Force.

```

1  <!DOCTYPE html>
2  <html>
3  <head>
4      <title> Boardgames through the ages</title>
5      <link href="Styling.css" rel="stylesheet">
6  </head>
7  <body>
8      <div class="intro">
9          <h1 id="title"> Boardgames </h1>
10         <p>A board game is a tabletop game that involves
11             counters or pieces moved or placed on a pre-marked
12             surface or "board", according to a set of rules.
13             Some games are based on pure strategy,
14             but many contain an element of chance;
15             and some are purely chance, with no element of skill.</p>
16         
17     </div>
18     <div class="content">
19         <h2> Game Examples </h2>
20         <table>
21             <tr>
22                 <td>Name</td>
23                 <td>Number of Players</td>
24                 <td>Recommended Age</td>
25                 <td>Estimated Playing Time</td>
26             </tr>
27             <tr>
28                 <td>Rising Sun</td>
29                 <td>3-5</td>
30                 <td>13+</td>
31                 <td>90-120 mins</td>
32             </tr>
33             <tr>
34                 <td>Tiny Epic Zombies</td>
35                 <td>1-5</td>
36                 <td>14+</td>
37                 <td>30 mins</td>
38             </tr>
39             <tr>
40                 <td>Terraforming Mars</td>
41                 <td>1-5</td>
42                 <td>12+</td>
43                 <td>120 mins</td>
44             </tr>
45         </table>
46     </div>
47     <br>
48     <div class="extra"> <a href="https://boardgamegeek.com/"> Learn more</a></div>
49 </body>
50 </html>

```

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The directors are **not** familiar with HTML development. Answer the following questions to help them better understand HTML:

a. Which tag is used to create a new column in the table?

\_\_\_\_\_ (1/2)

b. Which tag is used to create a new row in the table?

\_\_\_\_\_ (1/2)

c. What is the difference between the `<h1>` and `<h2>` tag?

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_ (1)

d. Explain the purpose of the alt attribute in line 16.

\_\_\_\_\_  
\_\_\_\_\_ (1/2)

e. Which tag is used to create a link to another website?

\_\_\_\_\_ (1/2)

f. Which tag is used to create a link to a CSS file?

\_\_\_\_\_ (1/2)

g. What is the purpose of the `<html>` tag in line 2?

\_\_\_\_\_  
\_\_\_\_\_ (1/2)

h. What is the class attribute in the `<div>` tags used for?

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_ (1)

i. What is the purpose of the `<head>` tag?

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_ (1)