Index Number:\_\_\_\_\_ SEC39/s2.19s



# MATRICULATION AND SECONDARY EDUCATION CERTIFICATE EXAMINATIONS BOARD

## SECONDARY EDUCATION CERTIFICATE LEVEL 2018 SUPPLEMENTARY SESSION

SUBJECT: Information Technology

PAPER NUMBER: Synoptic - Unit 2
DATE: 2<sup>nd</sup> November 2018
TIME: 10:00 a.m. to 12:05 p.m.

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

#### **Scenario**

STORIES is a bookstore which has recently opened in Sliema. Over the three weeks that the store has been open, there have not been a lot of customers and the company director hopes that some advertising could help bring in more people.

Question 1 K2 (10 marks)

The director knows that there are different multimedia components and would like to learn more about them.

Provide **TWO** file formats for each of the components mentioned below:

	Multimedia Components	File Formats
a)	Text	
b)	Audio	
c)	Animation	
d)	Video	
e)	Images	

Question 2

K3 (12 marks)

i	tion <b>TWO</b> differences between raster a 	
'		(1
i	i	
Writ	e down whether the following file form	(1 ats are raster or vector. (2)
	File format	Raster/Vector
	PNG	
	ВМР	
	PDF	
	TIFF	
	i.  THREE image file formats with losslo	(1)
i	-	
i	i	4.5
i	ii	(1)
Are '	Vector images compressed or uncompr	ressed?
		(1
	ine an advantage of having an image v	vith a colour depth of 16 bits and the same imag

Please turn the page.

Question 3 K4 (6 marks)

STORIES has acquired the service of a junior marketing executive. Help the marketing executive identify the effects used on the images below by writing the name of **ONE** effect next to each picture. A number of choices have been provided.

brightness, hue, saturation, invert, contrast, blur

#### Original image:



Figure 1: Pumpkins and flowers Source: https://pxhere.com/en/photo/851491

Image	Effect Name



Please turn the page.

Question 4

**C2 (10 marks)** 

-		elp in the creation of composite images. Answer the following questions to g executive.	help	the
a)	Descri	ibe inner glow.		
b)	Descri	ibe outer glow.		
c)	Provid	le a description of the following:		
	i.	Drop Shadow:		(2)
	ii.	Inner Shadow:		
d)	Provid	le a description of the following:		(2)
,	i.	Overlay:		
	ii.	Hard light:		
				(2)

**Question 5** 

	e marketing executive would like to move from image editing to simple animations. Provide ir assistance by answering the following questions.
a)	Provide a definition of the term "animation".
	(2)
b)	What is the use of keyframes in animation?
	(2)
c)	Which application could be used to create an animation? (1)
Qu	estion 6 K8 (8 marks)
car Ho	w that the marketing executive has a better understanding of image editing, it is time to ry out video and sound editing in order to be able to create short adverts for STORIES. wever, there are many different terms used and you have been asked to assist by providing efinition of the following terms:
a)	Transitions:
	(2)
b)	Aspect Ratio:
	(2)
c)	4K:
	(2)

This question continues on next page.

A1 (5 marks)

d)	PAL/NT	SC:		
				 (2)
Qu	estion 7	7	A2 (6 mar)	ks)
		ne company has a better understand rking on their first production. Help l	ling of the audio/visual terminology, it would loy answering the questions below.	ike
a)		n <b>THREE</b> considerations that should visual production.	d be taken during the PLANNING phase of t	the
	i			(1)
	ii			
	iii			
	-			(1)
b)	Place th	he following elements under the cor	rect phase of an audio/visual production.	(3)
	\	video effects, aspect ratio, transition	s, frame rate, sound, type of format	
		Production Phase	Output Phase	
				$\perp$

**Question 8 C5 (13 marks)** 

The Marketing Executive wants to create a website in order to be able to upload videos and images for the bookstore. She is still new to HTML and would like your help with understanding a piece of code.

```
1 <!DOCTYPE html>
2 ▼ <html>
3 ₹
       <head>
4
           <title> Stories Bookstore</title>
           <link href="Styling.css" rel="stylesheet">
      </head>
7 ▼
       <body>
8
           <h1> Welcome to Stories!</h1>
9
           <h3> Featured book!</h3>
           <img alt="HP Book Cover" src="images/HP%20Book%20Cover%201.jpg" height="400">
10
           <a href="https://www.pottermore.com/">More information</a>
11
12 </body>
13 </html>
```

Figure 2: HTML code

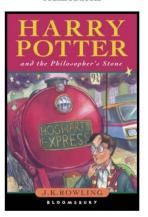
Ans	swer the following questions by refering to Figure 2.	
a)	What is the function of the <html> tag in line 2?</html>	
		(1.5)
b)	Which tag is being used to display an image on the website?	
		(1.5)
c)	In the <link/> tag in line 5 what is the purpose of the attribute <b>rel</b> ?	
		(1.5)
d)	What is the purpose of the <b>height</b> attribute in the <img/> tag in line 10?	
		(1.5)
e)	What is the purpose of the <b>href</b> attribute in line 11?	
		(1.5)

This question continues on next page.

f) The website that corresponds to the above code looks like Figure 3 below:

#### **Welcome to Stories!**

#### Featured book!



**More information** 

Figure 3: Website screen shot Source: http://www.pottermore.com

	i. What would happen if the  tag in line 11 is removed?	
		(2)
	ii. What is the difference between the <h1> and  tags?</h1>	
g)	If an unordered list had to be included in the website, which tags would be needed	(2)
		(2)
Qu	cestion 9 C4	(7 marks)
The	e company wants to be able to sell books via the website being created.	
a)	Should the company create a static or dynamic website?	
		(1)
b)	Explain why the type of website chosen in Question 9(a) should be used for this s	scenario.
		(2)

c)	Explain <b>TWO</b> interactive elements that could be included in the well	osite.
	i	(2)
	ii	
		(2)
Qu	estion 10	K10 (4 marks)
The	e marketing executive has heard that CSS could be used in web design	gn.
Lis	t <b>FOUR</b> advantages of using CSS.	
a)	Advantage 1:	
		(1)
b)	Advantage 2:	, ,
		(1)
c)	Advantage 3:	
		(1)
d)	Advantage 4:	
		(1)

Please turn the page.

Question 11 A3 (19 marks)

You are requested to help the company create a page within the bookstore website. On completion, the page should look like the Figure 4 shown below:

## Opening hours

Day	Hours	
Monday to Friday	9:30 to 5:00	
Saturday	9:30 to 1:00	
Closed	N/A	

### Location



Figure 4: Contact us page Source: Google maps

On the next page, write the **HTML** and **INTERNAL CSS** code needed to create the website as shown above. Some additional notes have been provided with the necessary design details.

#### **Additional Notes:**

- Page title: STORIES Bookstore
- "Opening Hours" and "Location" texts are to be formatted as headers
- Table with solid border in Lightgray colour
- Table column width: 300 px
- Image border: Solid Black
- Image name: SliemaLocation.png (the image is found in a folder called images)
- Image width: 600 px

-		
-		

# Blank Page