	1000					
/	produces video file	with the following	ng specifications.			
· B	Aduces Vie		7			
1	video Video	1020 × 1080	1			
jo	Resolution	4 hit true colour	- 5.	Audio part	_	
	Rest Jenth 1	4-bit true colour 24 fps		Mudio part		
	Colour o rate		1 1	THE SIZE	4.1kHz	
	Frame Bit rate	8 Mbps	1	Landell	10 bite	
	Duration	2 hours] [_ nit	JIATO.	
	Dur			Duration	192 khpa	
			i a.		& DOWN	
	arimate the un	Combressed the 8	ize of the video p	art in on		
,	(i) Estimate the un		•	Trin GB. Show	YOUR COL	
(3)	`				calculation.	
	.1	compressed file s	ize of the			-/0
	Estimate the un	Compressed the s	ize of the audio	part in GB. Show		(2 marks
	(ii) Estimate the ur			- 040W	your calculation	
						(2
	John can use the fo	llowing modes to	record a video:	*		(2 mark
h)	John can use the re					
,		Mode 1	Mode 2	Mode 3	36	
	1 tian	1920 × 1080	1920 × 1080	1920 × 1080	Mode 4	Mode 5
	Resolution (bit)		12	30	3840 × 2160	3840 × 216
	Colour depth (bit)	24	30	30	48	30
	Frame rate (fps)				30	60
	Suggest the best me	de for each of the	e following situa	tions.		
	Suggest the best in) (C 101 Cuch 12 14		uoiibi		
		Situatio	· · ·		76.1	
		Situatio)11 		Mode	
	1 decim	volving fast movi	ng objects			
	Record a video in	AOIAIIIE TOOLIIOAI				
	11 1	ty of still images	captured from th	e video		
	Best display quali	ty of suit images				
		o nima				
	Smallest video fil	e size] (3 ma
			or was a first to the control of			(2 mg

(c)	John has hundreds of videos. He drafts a web page consisting of a videother videos, as shown below: * John's videos	deo to be played and thum
	John's videos	Wall was a second of the secon
	▶ ■ → ▶ ♣ 5,612 ♀ 12	Eng #
(i)	Suggest two different uses of the mouse over effect that may Explain your answer briefly.	enhance the viewer experien
		(A ma

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(iii) Explain briefly how cookies in a browser can enhance the viewer experience. Give an example illustrate your answer.	(11)	Viewers can vote on the video by clicking on thumb images (). Explain briefly how John can use the voting data to provide better service to viewers. Give an example to illustrate your answer.
(iii) Explain briefly how cookies in a browser can enhance the viewer experience. Give an example illustrate your answer.		answer.
(iii) Explain briefly how cookies in a browser can enhance the viewer experience. Give an example illustrate your answer.		
(iii) Explain briefly how cookies in a browser can enhance the viewer experience. Give an example illustrate your answer.		
(iii) Explain briefly how cookies in a browser can enhance the viewer experience. Give an example illustrate your answer.		
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(iii) Explain briefly how cookies in a browser can enhance the viewer experience. Give an example illustrate your answer.		
(iii) Explain briefly how cookies in a browser can enhance the viewer experience. Give an example illustrate your answer.		
	/ ii	i) Explain briefly how cooking in a s
	(11	illustrate your answer.
(2 mar		
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ers written in the margins will not be marked.

Amy has three vector images:	Image 2		Image 3
Image 1 (a) (i) Which file format AI, B (ii) Give two advantages of	MP, JPG or PNG supp		s?
(iii) Amy imports the three image 4? Describe the difference in the last three image 4.	images and then obtained iting steps involved	Logo	does she create the logo b

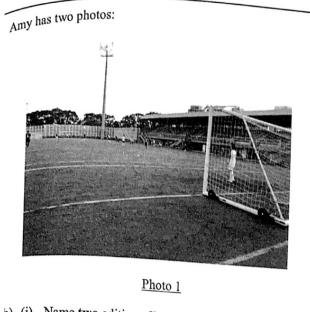




Photo 2

b) (i) Name two editing effects, other than image brightening, that Amy can use to refine the photos.

(2 marks)

(ii) How can she create the following composite photo from Photo 1 and Photo 2? Describe the editing



(3 marks)

(c)	Amy uses the composite photo to create a 16 inch × 10 inch poster. She plans to print this poster at printing resolution of 300 dpi.
	(i) What is the aspect ratio of this poster?
-	
	(1_{max})
(i	i) To ensure that the printout is not fuzzy, what should the minimum resolution of the compact
	i) To ensure that the printout is not fuzzy, what should the minimum resolution of the composite photoe?
١ ٨	ny considers using RGB or CMYK to produce the poster. Briefly explain the difference between RG CMYK.
) Am	ny considers using RGB or CMYK to produce the poster. Briefly explain the difference between
and	CWIR.
	0-
	(2 mark

An onlin Search Date	booking system is used for booking sports facilities. A web page in the system is shown below: The count of
	Search
Users hav C1. C2. C3. C4. C5.	Sometimes the system shows nothing in the search result because I make a typo error in location. Only one kind of facility for each search is not enough for me. Sometimes the search result contains so many entries for me to choose from. It is difficult fo to select a suitable one. I do not care about the location. I just want to book facilities over a specific date range. The online booking system is not user-friendly.
(a) Sugg	gest two different web design features that can be implemented to address the issue in C1.

Answers written in the margins will not be marked.

	acading Style sheet (CSS) will be used in several web no
)	Cascading Style Sheet (CSS) will be used in several web pages in the online booking system. Give two reasons to support the use of CSS.
	3110.1410
	A user browses the web site of the online booking system:
,	nup://www.sportscentre.org.hl.
	Not secure and a s
	(i) Referring to the alert message 'Not secure', what issue will occur when browsing this web site? Explain your answer briefly.
	(2 marks)
	(ii) What feature should be implemented in the web site to address this issue? Explain your answer briefly.
	(2 marks

Registration Username: Password: Captcha: Captcha: Captcha: Captcha: Cancel Error messages might be shown after clicking the 'Create an account' button. For each of the error messages, state whether server-side or client-side validation should be carried out. The answer. (i) 'The username has been used.' (ii) 'The password must contain more than 6 characters.' (iii) 'The two passwords entered are not identical.' (b) (i) What is the purpose of using Captcha on the registration page?		Susan develops an online gaming platform. The design of the registration page is as	follow
(ii) 'The username has been used.' (iii) 'The password must contain more than 6 characters.' (iii) 'The two passwords entered are not identical.' (b) (i) What is the purpose of using Captcha on the registration page? (l) (l) (li) Suggest an accessibility measure which would allow visually impaired users to access Captch		Registration Username: Password: Re-enter password: Captcha: Captcha: Captcha: Captcha: Cancel	
(ii) 'The password must contain more than (iii) 'The two passwords entered are not identical.' (b) (i) What is the purpose of using Captcha on the registration page? (ii) Suggest an accessibility measure which would allow visually impaired users to access Captch	(4	answer.	each of the folloried out. Justify
(iii) 'The two passwords entered are not identical. (I) (b) (i) What is the purpose of using Captcha on the registration page? (In) (Iii) Suggest an accessibility measure which would allow visually impaired users to access Captch		(ii) 'The password must contain more than 6 characters.'	(1 mg
(b) (i) What is the purpose of using Captcha on the registration page? (li) Suggest an accessibility measure which would allow visually impaired users to access Captch		(iii) 'The two passwords entered are not identical.'	(1 mar
(ii) Suggest an accessibility measure which would allow visually impaired users to access Captala	(b)	(i) What is the purpose of using Captcha on the registration page?	(1 mark)
(1 mi		(ii) Suggest an accessibility measure which would allow visually impaired users to	(1 mark)
			(1 mark)

	Guess a number from 1	Guess a number from 1	(iii) Give		of distorted characters in the Captcha.
Player 1. 91 Guess a number from Player 2: 78 Guess a number from Player 3: 77 Guess a number from Player 1: 70 The winner is Player 1 The numbers shown on the screen are images instead of text. Suggest and describe a web desificature to assist visually impaired players play this game.	Player 1. 91 Guess a number from Player 2: 78 Guess a number from Player 3: 77 Guess a number from Player 1: 70 The winner is Player 1 The numbers shown on the screen are images instead of text. Suggest and describe a web desificature to assist visually impaired players play this game.	Player 1. 91 Guess a number from Player 2: 78 Guess a number from Player 3: 77 Guess a number from Player 1: 70 The winner is Player 1 The numbers shown on the screen are images instead of text. Suggest and describe a web desificature to assist visually impaired players play this game.	wills, ab		ans ans
	(c) (i) The numbers shown on the screen are images instead of text. Suggest and describe a web designature to assist visually impaired players play this game. (2 mar.)		Pla Gui Pla Gui Pla Gui Pla	ss a number from 65 to 6	1 ₀ 0 77 76
(2 mar	(2 mar	(2 mar	(c) (i) The	numbers shown on the screen are i	images instead of text. Suggest and describe a web de
(2 mar	(2 mar	(2 mar	featu	e to assist visually impaired playe	Puly this galile.
				e to assist visually impaired playe	The purpose of the pu
			reatu	e to assist visually impaired playe.	
			reatu	e to assist visually impaired playe.	

Variable/Subprogram	e script for the number guessing game, with the following:
MyRAND	Generate a random integer between 1 and 100 :
A	Generate a random integer between 1 and 100 inclusive Store the answer
N	Store the answer
G	Citie the player identity much
LN	
HN	Store the lowest number in the
	Store the highest number in the range
Complete the pseudocode	for the script below.
A ←	
N ← 0	
$G \leftarrow 0$	
LN ← 1	
HN ← 100	
Repeat	
$N \leftarrow N + 1$	
If	then
N +	
Output: Con	1
G ← input	ess a number from LN to HN
If A > G th	M TAULT MOIL
TI H > G Ch	len
else	
Until	
J	
Output: The winner	er is Player
	(6 ma)
Susan plans to operate the gar	ning platform in her server at home. Give a drawback of using this ser
and suggest an alternative solu	ution.

END OF PAPER