

PRACTICE PAPER INFORMATION AND COMMUNICATION TECHNOLOGY PAPER 2C

Multimedia Production and Web Site Development

Question-Answer Book

(1 hour 30 minutes)
This paper must be answered in English

INSTRUCTIONS

- (1) After the announcement of the start of the examination, you should first write your Candidate Number in the space provided on Page 1 and stick barcode labels in the spaces provided on Pages 1, 3, 5 and 7.
- (2) **ANSWER ALL QUESTIONS.** Write your answers in the spaces provided in this Question-Answer book. Do not write in the margins. Answers written in the margins will not be marked.
- (3) Supplementary answer sheets will be supplied on request. Write your candidate number, mark the question number box and stick a barcode label on each sheet, and fasten them with string INSIDE this book.
- (4) No extra time will be given to candidates for sticking on the barcode labels or filling in the question number boxes after the 'Time is up' announcement.

Please stick th	ie ba	arco	de l	abe	el h	ere	€.
Candidate Number							

©香港考試及評核局 保留版權 Hong Kong Examinations and Assessment Authority All Rights Reserved 2012



Answei	r all o	questions.
1.	othe	er is the web designer of an online discussion forum. Members of the forum upload files to share with ers, and most of the files are videos. He decides to set up a video-sharing web site for members to oad, share and view videos.
	(a)	(i) It is found that the extensions of the files uploaded by the members include:
		avi, doc, flv, mov, mp3, mpg, pdf, php, rm, wmv
		Which of these are video file types?
		(ii) Suppose the web site supports all video formats. Give two advantages of this configuration.
		(4 marks)
	(b)	Peter decides that all the videos uploaded should be converted to a standard format.
		(i) Peter proposes that the videos should adopt the same video file format and have a low frame rate. Give two advantages of this proposal for web site development.
		(ii) Suggest two more attributes in which the videos can be standardised.
		(4 marks)

Please stick the barcode label here.

(c)	Pete	er considers the following two methods of sending videos to members.	
		Method 1: Send the entire video to members before they watch it. Method 2: Send the videos to members and they can watch them instantaneously.	
	(i)	Give two potential advantages of each method.	
		Method 1:	
		Method 2:	
	(ii)	Peter uses an embedded player in the design. Give two advantages of using the embe	
	(ii)		edded p
	(ii)		edded p
	(ii)		edded p
	(ii)		
	(ii)		edded p

2. Amy is a web designer. She designs a web site to promote monuments to tourists in Hong Kong. She creates two different designs for the first page of the web site, both with text and images.

Design 1 (The descriptions of all monuments are shown on a single page.)

List of Monuments in Hong Kong



香港大學本部大樓 Main Building, HKU

The Main Building of the University of Hong Kong is the oldest of the University's structures. Construction of the building started in 1910 and was completed in 1912. It is an imposing institutional structure, supported by granite colonnades in Renaissance style and surmounted by a tall clock tower and four turrets.



香港大學大學堂 University Hall, HKU

University Hall, which is situated on top of a hill in Pokfulam, is a charming edifice in a blend of Tudor and Gothic architectural styles. It was built in about 1861 by a Scottish businessman, Douglas Lapraik, as his headquarters and residence and named "Douglas Castle" after him.

Design 2 (Images of all monuments are shown on the first page. When an image is clicked, the description of the corresponding monument will be shown.)

Design 2A (First page)

.

List of Monuments in Hong Kong

.



Main Building, HKU 香港大學本部大樓



Western Market 舊上環街市



University Hall, HKU 香港大學大學堂



St. John's Cathedral 聖約翰座堂



Government House 香港禮賓府



Old Supreme Court 舊最高法院

Answers written in the margins will not be marked.

PP-DSE-ICT 2C-4 4

For example, if the image of 'University Hall, HKU' is clicked, the following page is shown:

Design 2B

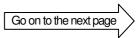
香港大學大學堂 University Hall, HKU



University Hall, which is situated on top of a hill in Pokfulam, is a charming edifice in a blend of Tudor and Gothic architectural styles. It was built in about 1861 by a Scottish businessman, Douglas Lapraik, as his headquarters and residence and named "Douglas Castle" after him.

(3 marks)

Answers written in the margins will not be marked.



(b)	Suggest a web page design method for aligning the information in the way shown in Design 2A.
	(1 m
(c)	In Design 2A, Amy shows the names of monuments as images.
	(i) Give two disadvantages of showing English words in this way.
	(ii) Give one advantage of showing Chinese characters in this way.
	(3 ma
(d)	To reduce the download time of the images in Design 2A, Amy uses images with reduced file si Suggest three ways in which Amy can reduce the file size of the images.
	(3 ma
(e)	Amy wants to show the images in Design 2A using interlacing. Give the main advantage of technique.
	(2 ma

Please stick the barcode label here.

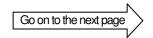
(f)	Amy takes photos of a certain monument from different angles at a resolution of 1600×1200 she joins them together and forms a wider image with a resolution of 16000×1200 . Althoughotos with the same height are enough to create this image, Amy decides to take pictures different elevation angles and at least 11 pictures for each angle. Why?
	(2 1
(g)	Amy wants to prevent people from downloading the photos of the monuments directly during browsing. Suggest two methods for Amy to do this.
	(2 1

3.	Janice is a web designer. She is designing a web site for Easy Travel Agency. The first page of the web site
	is sketched below:



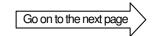
- (a) Janice first draws the company logo using a vector graphics software package. Then, she exports the logo using the filename 'logo.gif' with a resolution of 50×30 .
 - (i) Why does Janice need to export the logo in another format instead of using the logo in vector graphics format directly?
 - (ii) Give two reasons to explain why Janice wants to export the logo in GIF format instead of JPEG format.

	the resolution of the logo is 150×90 . There are two ways to alter the resolution:
	(1) Use the HTML code ' '.
	(2) Use the vector graphics software package again to export the logo with a resolution 150×90 .
	Which method do you suggest? Explain briefly.
	(5 n
(b)	Give two reasons to explain why Janice would like to have a text only page in addition to graphical page in her web site.
	(2 r
(c)	
(c)	Janice wants to create an animation to zoom out so that the logo of the company appears smal
(c)	Janice wants to create an animation to zoom out so that the logo of the company appears small
(c)	Janice wants to create an animation to zoom out so that the logo of the company appears small
(c)	\Rightarrow
(c)	Janice wants to create an animation to zoom out so that the logo of the company appears small shown below.
(c)	Janice wants to create an animation to zoom out so that the logo of the company appears small shown below.
(c)	Janice wants to create an animation to zoom out so that the logo of the company appears small shown below.



(ii)	Janice wants to set the number of frames per second for the animation as either 10 or 30. Give advantage of each setting.
(iii) Janice exports the animation as SWF format. Give two advantages of including a button f skipping the animation.
_	
(iv) Suggest and describe another button for the animation.
	(8 mark

Enter a password: Re-enter the password: Please also enter your personal details. Name: Sex (M/F): Address: N.T. (Region) Shatin (District) Email address: Create Account Suggest two methods of entering the sex of the user, other than using a text box.	Enter usernam	ie:					Check
Please also enter your personal details. Name: Sex (M/F): Address: N.T. (Region) Shatin (District) Email address: Create Account Suggest two methods of entering the sex of the user, other than using a text box.	Enter a passw	ord:					
Name: Sex (M/F): Address: N.T. (Region) Shatin (District) Email address: Create Account Suggest two methods of entering the sex of the user, other than using a text box.	Re-enter the p	assword :					
Sex (M/F): Address: N.T. (Region) Shatin (District) Email address: Create Account Suggest two methods of entering the sex of the user, other than using a text box.	Please also en	ter your pers	onal details.				
Address: N.T. (Region) Shatin (District) Email address: Create Account Suggest two methods of entering the sex of the user, other than using a text box.	Name:						
Email address: Create Account Suggest two methods of entering the sex of the user, other than using a text box.	Sex (M/F):						
Create Account Suggest two methods of entering the sex of the user, other than using a text box.	Address:	N.T.	(Region)	Shatin	(District)	
Suggest two methods of entering the sex of the user, other than using a text box.	Email address	:					
Suggest two methods of entering the sex of the user, other than using a text box.			Cre	eate Account			
(2 m:	Suggest two method	ods of enterin	ng the sex of th	ne user, other th	an using a text	box.	
(2 m							
(2 m							
							(2 m
							(2 m
							(2 m
							(2 m
							(2 m
							(2 m
							(2 m
							(2 m
							(2 m
							(2 m
							(2 m
							(2 m
							(2 m
							(2 m
							(2 m
							(2 m



	:
797	3
122	
٥	9
ţ	1100
=	۰
1771	
ound	2
ç	u,
2	3
P 1131	1
the mai	1
1n the mai	31
ten in the mai	
written in the mai	
ers written in the mai	
ewere written in the mai	
Answers written in the mai	WOLS WILLIAM III HIS III

(b) To	valid	ate the username and password, John suggests three methods below:
(6) 10	varia	Method 1: plain HTML codes Method 2: client side scripts Method 3: server side scripts
(i)		gest a method, 1, 2 or 3, of validating each of the following items. If more than one menally applicable, write down the one with the lowest number.
	(1)	The username consists of alphanumeric characters only.
	(2)	The maximum length of a username is 10.
	(3)	The minimum length of a password is 6.
	(4)	The two passwords are identical.
	(5)	The username has not been used.
		cess, which method is applicable? Justify your answer.
_ _ _		
_		
		(7

(c)	After creating an account, users can log on to the discussion forum and post messages there.
	(i) It is commonly said that the authentication process should be done on the server side due to security issues. Explain briefly why an authentication process done on the client side is insecure.
	(ii) After logging on to the discussion forum, some authentication information about users, such as username, can be stored on the client side or server side.
	(1) Where is the information stored on the client side?
	(2) Give one advantage of storing such information on the client side.
	(3) Describe how to transfer this authentication information across the web pages in the forum using hidden text in HTML.
	(6 marks)
	END OF PAPER
	END OF PAPER
Sources of Examination	materials used in this paper will be acknowledged in the <i>Hong Kong Diploma of Secondary Education n Practice Papers</i> published by the Hong Kong Examinations and Assessment Authority at a later stage.

Do not write on this page.

Answers written on this page will not be marked.

PP-DSE-ICT 2C-14 14

Do not write on this page.

Answers written on this page will not be marked.

Do not write on this page.

Answers written on this page will not be marked.

PP-DSE-ICT 2C-16 16