Longman ICT Exam Series

Multimedia Production and Web Site Development

FORMATION AND COMMUNICATION

ER 2C Mock 7

HKDSE Information and Communication Technology **Mock Papers** (Paper 2C)

0100

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Longman ICT Exam Series

HKDSE Information and Communication Technology

Mock Papers (Paper 2C) Multimedia Production and Web Site Development

Exam Strategy

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F. Tackling Questions Involving Calculations

Some students may think that the calculations involving concepts such as file size and sampling rate are difficult. In fact, the variety of question types about calculations in the HKDSE ICT Exam is not wide.

The following examples show the question styles of HKCEE CIT (Paper 2 Module D) from 2005 to 2011. The style of the questions below are similar to that of the original past paper questions. The question numbers of the original past papers are stated in the examples for reference.

Example 1 Calculating the file size of an uncompressed graphics file [Reference: HKCEE CIT 2006 (Paper 2 Module D) Question 4(a)]

A graphics file has a colour depth of 4 bits / pixel and a resolution of 640×480 pixels. Calculate the uncompressed file size of the graphics file.

Answers (with explanation)

- 1. The number of bytes used for each pixel of the graphics file = 4 bits = $\frac{4}{0}$ byte = 0.5 byte
- 2. The resolution of the graphics file is 640×480 pixels.

The uncompressed file size of the graphics file

 $= 0.5 \times 640 \times 480$ bytes

= 153,600 bytes

$$=\frac{153,600}{1,024}$$
 KB

= 150 KB

Answers (marking scheme)

Writing the answers using the above presentation is too time-consuming in the examination. Candidates can write the following instead:

File size =
$$640 \times 480 \times \frac{4}{8}$$
 bytes = 153,600 bytes = 150 KB (1 mark)

<u>Remarks</u>

- Mind the units.
- The above calculation assumes that the graphics file is uncompressed (as stated in the question).

Example 2 Estimating the number of graphics files that can be stored in a storage device [Reference: HKCEE CIT 2008 (Paper 2 Module D) Question 2(b)(i)]

John wants to use a digital camera to take photos with a resolution of $1,920 \times 1,080$ pixels. Given that the photos are uncompressed with a colour depth of 24-bit, estimate the number of photos that can be stored in a 4 GB memory card.

Answers (with explanation)

- 1. The number of bytes used for each pixel of a photo = 24 bits = $\frac{24}{8}$ bytes = 3 bytes
- 2. The resolution of each photo is $1,920 \times 1,080$ pixels.

The number of bytes used to store one photo

 $= 3 \times 1,920 \times 1,080 = 6,220,800$ B

G. List of HTML Tags and Attributes

The table below shows a list of all common HTML tags and their attributes including those appeared in the HKCEE CIT (Paper 2 Module D) from 2005 to 2011, HKDSE ICT 2012 Practice Paper (Paper 2C) and HKDSE ICT 2012 (Paper 2C).

Tag	Purpose	Common attribute(s)			
<a>	Create an anchor or a hyperlink.	 name Specify the name of an anchor. Example: A name="MyAnchor">Anchor Text 			
		<pre>href Specify a file or an anchor that a hyperlink refers to. Examples: Linking to another web site GovHK Linking to a file within a web site Home Linking to a file within a web site Home Linking to an anchor on the same page Go to the anchor Linking to an anchor of another web page Go to the anchor defined_in_page2_htm </pre>			
		<pre>target target Specify the location where the target URL will be opened. Possible attribute values include: blank Opening the target URL in a new window or navigation tab parent Opening the target URL in the parent frame self Opening the target URL in the same frame as it is clicked top Opening the target URL in the full browser window Example: GovHK</pre>			
	Make enclosed text bold.				

Candidate Number					
Class					
Class Number					

Marker's

Use Only

Marker No.

Marks

Question No.

1

2

3

4

Total

Examiner's

Use Only

Examiner No.

Marks

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HONG KONG DIPLOMA OF SECONDARY EDUCATION EXAMINATION

INFORMATION AND COMMUNICATION TECHNOLOGY

PAPER 2C Mock 4

Multimedia Production and Web Site Development Question-Answer Book

Time allowed: 1 hour 30 minutes

This paper must be answered in English.

INSTRUCTIONS

- (1) Write your Candidate Number, Class and Class Number in the space provided on Page 1.
- (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 provided on request. Write your Candidate Number, Class and Class Number, and fill in the question number on each sheet and fasten them with a string **INSIDE** this Question-Answer Book.
- (4) No extra time will be given to candidates for writing Candidate Number, Class and Class Number, and filling in the question numbers after the 'Time is up' announcement.

 Checker's Use Only

 Checker No.

 Total

© Pearson Education Asia Limited 2012 All rights reserved. (ii) Collecting IP addresses of users' computers without notifying them

(2 marks)

2. Sam is a student who tries to create a logo (Fig. 1) for his class using graphics editing software. He creates the logo with three layers (Fig. 2).



Answers written in the margins will not be marked.

Longman ICT Exam Series

HKDSE Information and Communication Technology Mock Papers (Paper 20)

(Paper 2C) Multimedia Production and Web Site Development

Answers

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Answers

1.

Mock 6

Marks

(a) (i)	Red			1
(ii)	The browser would use a default font installed on the machine for displation (or any words that 'Verdana' should have used).	aying the v	vord 'My H	Iome Page' 1
(b) (i)	The tag <link/> defines the relationship between a document and an example.	xternal res	ource.	1
(ii)	<pre>h1 { background-color: #FF0000 } h2 { font-family:verdana } p { background-color: #01A400 } (① h1, h2 and p present without any unnecessary items) (① Correct syntax)</pre>			3
	(① All correct)			
(c) (i)	If the style of h1, h2 or p is changed, all the occurrences of the corresp will be updated at the same time when using Method 2.	ponding tag	g in the we	b file 1
(ii)	Advantage of Method 3: A single CSS file can be used among several H	ITML files	5.	1
	Disadvantage of Method 3: Due to the fact that an external file is requir files, all the web pages that use the file style.css would fail to display pr path is incorrectly inputted in the tag <link/> / if the required CSS file or deleted.	red in order coperly if the is moved	r to display he file nam to a differe	HTML 1 he or the nt location
(d) (i)	File name	1 ing	2 ing	3 ing 3

File name	1.jpg	2.jpg	3.jpg	
Can the image be displayed correctly on the client's computer?	No ①	Yes ①	Yes ①	

(ii)

2

 (① All widths are the same ranging from 30% to 33%.) (() All correct) (Note: Including the attribute height="33%" will make the answer incorrect as this would make the images not square.) (Remark: In reality, the width of 33% may cause the display problem if the window size is too small. The more proper way to do so is to put all three JPEG files in a borderless table to ensure that the gap between images will be negligible. <imq src="c:\webserver\1.jpq" width="100%">)

(iii) It is useful when the image cannot be displayed correctly because the attribute alt would provide useful 1 information about the image by displaying the text on the browser.