

HONG KONG EXAMINATIONS AND ASSESSMENT AUTHORITY
HONG KONG DIPLOMA OF SECONDARY EDUCATION EXAMINATION 2016

INFORMATION AND COMMUNICATION TECHNOLOGY PAPER 2C

Multimedia Production and Web Site Development

Question-Answer Book

11.15 am – 12.45 pm (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 the | barcode l | label here. |
|------------------|-----------|-------------|
| | | |
| | | |
| | • . | |
| Candidate Number | | |



| An | ny plans to set up a web site for online learning. She uses HTML to write web pages. | |
|-----|--|-----------|
| (a) | (i) Give a reason to support the use of the latest version of HTML. | |
| | (ii) Give a reason against the use of the latest version of HTML. | |
| | | (2 marks) |
| Am | y will upload some videos to the web site. She can use MP4 or WMV as the video format. | |
| (b) | (i) Give a reason to support the use of MP4. | |
| | | |
| | | |
| | | |
| | (ii) Give a reason against the use of MP4. | |
| | | |
| | | |
| | | |
| | (iii) Other than MP4 and WMV, give two commonly used video formats in web pages. | |
| | | |
| | | (4 1-1) |
| (c) | Amy creates a web page with some text using a special font. | (4 marks) |
| (0) | (i) Some users can only view the text in a different font with their browsers. Why? | |
| | (i) some users can only view the text in a different font with their blowsers. Wify: | |
| | | - |
| | | |
| | | |
| | | |

| here | are three differen | | | |
|------|-------------------------------|-------------------------------|---------------------------|--------------------------------|
| here | ara three differen | | | (3 ma |
| | are unce unteren | at settings for Amy's videos, | as shown below: | |
| Γ | | Setting 1 | Setting 2 | Setting 3 |
| | Frame rate | 24 frames per second | 30 frames per second | 60 frames per second |
| Γ | Frame size | 720 × 480 | 1920 × 1080 | 3840 × 2160 |
| | Colour depth | 8-bit | 10-bit | 12-bit |
| | | | | |
| (| ii) If a video with video? | a Setting 3 is converted to a | video with Setting 1, how | v will it affect users to view |
| - ((| | Setting 3 is converted to a | video with Setting 1, how | v will it affect users to view |
| - (| | Setting 3 is converted to a | video with Setting 1, how | v will it affect users to view |

| | | | Hotel Booking | |
|-----|--------------|---|--|------------------------------|
| | Destination: | Hong Kong | Check-in: 13/5/2016 | Check-out: 14/5/201 |
| | | 5 Stars 20 hotels available 4 Stars 45 hotels available 3 Stars 88 hotels available | Length of stay: 1 Search Cancel | Adult: 2 Children: |
| (a) | | | side script instead of a client-s a user types 'Hong Kong' into | |
| | | | | |
| | in into | the 'Check-out' text bo | into the 'Check-in' text box, '14 x. Briefly explain why a client mplement this auto-fill function | s-side script instead of a s |
| | (iii) Sugges | t a web page design feat | ure to make the input of the dat | es more convenient. |
| | | | | |
| (b) | | | to the text boxes, 'Check-in', y two out of the three text boxe | |
| | (i) Give a | reason to support the use | e of all the three text boxes. | |
| | | | | |
| | | t and describe a validation recisely and efficiently. | on check to improve the web pa | age design to collect the in |
| | | | on check to improve the web pa | ige design to collect the ir |

| | Hotel (| Comparison | | | X |
|---------------------|---------|--------------|-------------|--------------|---|
| Check-in: 13/5/2016 | Check- | out: 20/5/2 | | | |
| Length of stay: 7 | Adult: | 2 | Children: 2 | Search Again | |
| Hotel Name | Stars | <u>Price</u> | Smoking | | |
| Double Orange Hotel | 2 | \$7,000 | No | Book | |
| Blue Sea Resort | 5 | \$25,000 | No | Book | |
| Candy Hotel | 3 | \$8,500 | Yes | Book | |
| Annle Hotel | 2. | \$6 800 | No | Rook | ▼ |

The travel agent would like to add the following items to help users list their desired hotels. Describe how the items can help users.

- (i) Check box
- (ii) Range search
- (iii) Radio button
- (iv) Multi-level sorting

(4 marks)

Answers written in the margins will not be marked.

(d) The web site provides online maps of hotels. For example, when a user clicks a map button for BB

Nathan Road

Hotel, the map of BB Hotel will be displayed, as shown below:

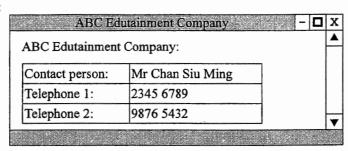
BB Hotel

Jordan Road

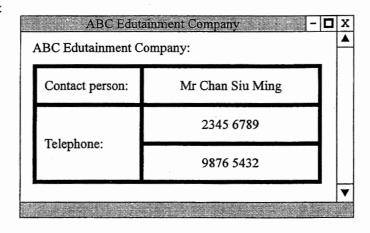
| 3. | Dar | any plans to build a mobile version of the web site of ABC Edutainment Company. |
|----|-----|---|
| | (a) | Give three considerations that Danny should take into account when building a mobile version of the web site. |
| | | (1) |
| | | |
| | | (2) |
| | | |
| | | (3) |
| | | (3 marks) |

(b) Danny edits the attributes of the table on the first page of the web site, as shown below:

Original web page:



Edited web page:

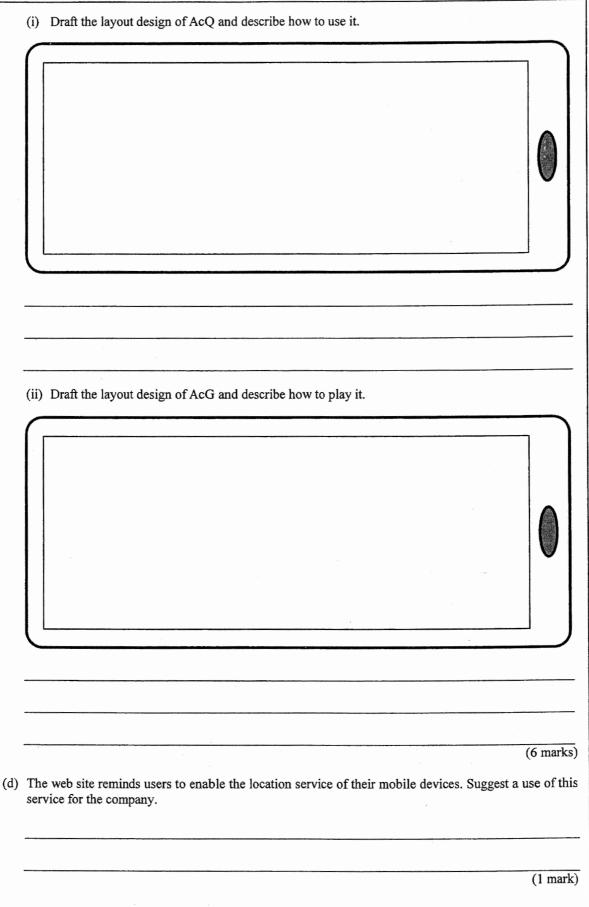


Other than the size of the table, give three attributes of the table that Danny has edited.

(3 marks)

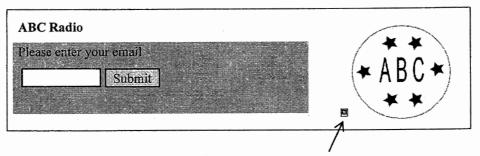
(c) The company plans to design a personal quiz (AcQ) and a two-player online game (AcG) for mobile devices about matching ICT acronyms and their full names, as shown below:

| <u>Acronym</u> | Full name |
|----------------|-------------------------------------|
| CPU | Dynamic Host Configuration Protocol |
| DHCP | Local Area Network |
| • | • |
| • | • |
| • | • |
| LAN | Central Processing Unit |



| | er designs a web site for ABC online radio station including the logo shown below: ABC ABC |
|----------|---|
| (a) | Someone suggests that Peter use PNG format instead of JPG format for the logo. Give two reasons to support the suggestion. |
| | (2 marks) |
| (b) | Peter wants to use a blinking effect for a banner advertisement under the logo. Suggest two ways Peter can create the blinking effect. |
| | |
| | |
| | (2 marks) |
| | (2 marks) er creates a one-minute audio file as the background music of the web site. The specifications of the audio are |
| | er creates a one-minute audio file as the background music of the web site. The specifications of the audio are Sampling rate: 44.1 kHz Sample size: 16 bits |
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| file (c) | cr creates a one-minute audio file as the background music of the web site. The specifications of the audio are Sampling rate: 44.1 kHz Sample size: 16 bits Number of channels: 2 (i) Estimate the file size of the uncompressed audio file (in MB). |
| file (c) | cr creates a one-minute audio file as the background music of the web site. The specifications of the audio are Sampling rate: 44.1 kHz Sample size: 16 bits Number of channels: 2 (i) Estimate the file size of the uncompressed audio file (in MB). |

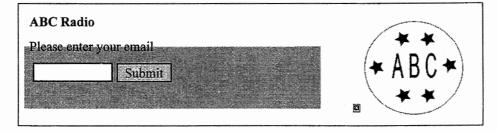
(d) Peter uses some image files including a copyright symbol stored in a USB drive to create a web page. He uploads the web page and then browses it, as shown below:



Expected copyright symbol 'C'

(i) Give two possible reasons why the copyright symbol 'C' cannot be shown.

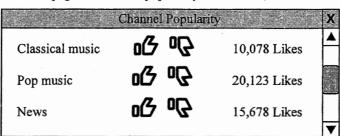
(ii) Peter browses the web page on another computer and finds that the position of the shaded area in the display is different, as shown below:



Give a possible reason why the position of the shaded area is different.

(iii) Peter changes the content of the metadata in the web page. Give two possible reasons.

(6 marks)



The actions to be taken by clicking on the thumb images are:

| Image | Name of image | Actions after a mouse click |
|------------|---------------|--|
| 吸 | T1 | The total number of 'Likes' increases by 1 and the image turns to |
| o <i>G</i> | T2 | The total number of 'Likes' decreases by 1 and the image turns to . |
| • | Т3 | The total number of 'Likes' decreases by 1 and the image turns to 06. |
| .6 | T4 | The total number of 'Likes' increases by 1 and the image turns to Q . |

(e) Peter uses scripts to implement the actions after the mouse clicks on images T1, T2, T3 and T4. Describe

| | , | | |
|--|---|--|---|
| | | | |
| en e | | man adamba Wallisto eninary galassa di Sistem et Laurena | |
| | | | A |

(3 marks)

Answers written in the margins will not be marked.

END OF PAPER