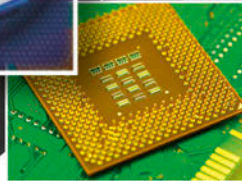


HKDSE

Information and Communication Technology

**Mock Papers
(Paper 1)**

**FOR 2016 HKDSE
EXAM & AFTER**



**Cheng Chi Shing
Kwan Chi Kuen
Lam Kwok Yiu**



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Exam Strategy

**Cheng Chi Shing
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A. Mode of Assessment of the HKDSE ICT

The following table shows the assessment for candidates who are sitting for the HKDSE ICT Exam.

Component		Duration	Weighting
Public examination	<u>Paper 1 – Compulsory Part</u> Section A: 40 multiple-choice questions (40%) Section B: 5 structured questions (60%) <i>All questions must be attempted.</i>	2 hours	55%
	<u>Paper 2 – Elective Part (Choose only one.)</u> Paper 2A: Databases Paper 2B: Data Communications and Networking Paper 2C: Multimedia Production and Web Site Development Paper 2D: Software Development <i>All questions must be attempted.</i>	1.5 hours	25%
School-based assessment (SBA)	Assessment criteria: <ul style="list-style-type: none"> Design & Implementation Conclusion & Discussion Testing & Evaluation Project Management 	—	20%

Standards Referencing

In the HKDSE ICT Exam, standards referencing is employed in reporting a candidate's performance. In this standards-referenced reporting, candidates' levels are reported with reference to a set of standards (concretely illustrated as in a set of level descriptors) as defined by the cut scores on a certain variable or scale for the ICT subject. The set of standards being referenced will remain constant over time while the cut scores and the percentages of candidates awarded at each level may vary from year to year.

There are five cut scores in the HKDSE ICT Exam, and they are used for distinguishing five levels (1 to 5) of performance of candidates. Apart from the five levels, candidates' performance below the cut score for Level 1 will be labelled as 'Unclassified' ('U'); the best and the second best groups of Level 5 candidates will have their results annotated with '**' and '*' respectively.

Level descriptors drafted by Hong Kong Examinations and Assessment Authority (HKEAA) for the Exam can be accessed on http://www.hkeaa.edu.hk/en/hkdse/hkdse_subj.html?A2&2&16_4.



B. How to Prepare for the HKDSE ICT Exam

1. Familiarize yourself with the HKDSE ICT curriculum. The Curriculum and Assessment Guide and its Supplementary Notes can be accessed on http://334.edb.hkedcity.net/doc/eng/curriculum/ICT%20C&A%20Guide_updated_e.pdf and http://www.edb.gov.hk/attachment/en/curriculum-development/kla/technology-edu/resources/ICT_Supplementary_Notes_1314_E.pdf respectively.
2. In order to build up a solid foundation of ICT, students should start as early as possible to:
 - study the ICT textbooks thoroughly and finish all the exercises inside,
 - update their computer knowledge by reading more technology news or magazines, and
 - acquire hands-on experiences in using information technologies.



INFORMATION AND COMMUNICATION TECHNOLOGY PAPER 1 (SECTION A)

Mock 3

(2 hours for both Sections A and B)

INSTRUCTIONS

1. Read carefully the instructions on the Answer Sheet. After the announcement of the start of the examination, you should first insert the information required in the spaces provided. No extra time will be given for inserting the information after the 'Time is up' announcement.
2. When told to open this book, you should check that all the questions are there. Look for the words '**END OF PAPER**' after the last question.
3. All questions carry equal marks.
4. **ANSWER ALL QUESTIONS.** You are advised to use an HB pencil to mark all the answers on the Answer Sheet, so that wrong marks can be completely erased with a clean rubber. You must mark the answers clearly; otherwise you will lose marks if the answers cannot be captured.
5. You should mark only **ONE** answer for each question. If you mark more than one answer, you will receive **NO MARKS** for that question.
6. No marks will be deducted for wrong answers.

6. What is the effect of dividing a document into different sections by adding section breaks?
- Different sections can therefore be opened separately.
 - Different sections can therefore be saved separately.
 - Different page layouts can therefore be applied to different sections.
 - The document's file size can therefore be reduced.
7. Which of the following ways **cannot** reduce the number of pages of a Word document?
- Changing the paper size from A4 to F4
 - Changing the zoom percentage from 100% to 75%
 - Changing the font size from 14 to 8 points
 - Deleting all the page breaks
8. What is the use of the 'what-if analysis' function provided in an electronic spreadsheet?
- Chart plotting
 - Record filtering
 - Decision making
 - Mail merge
9. Miss Lam stores the results achieved by her students in an inter-school swimming competition in a worksheet of a spreadsheet file as shown below.

Name	Class	Medal	Event
Chan Sze Ying	1C	Gold	50 m Free Style
Wong Wing Tung	2B	Bronze	100 m Back Stroke
Ho Hok Him	3A	Silver	50 m Butterfly
...

The principal wants to have a summary of the number of medals won in the competition, as shown below.

Medal	Number
Gold	5
Silver	14
Bronze	23

Which of the following spreadsheet features can Miss Lam use to create the above summary without doing counting manually?

- COUNTA function
- Filter
- Pivot table
- Sort

PEARSON HONG KONG
HONG KONG DIPLOMA OF SECONDARY EDUCATION EXAMINATION

INFORMATION AND COMMUNICATION TECHNOLOGY
PAPER 1 (SECTION B)
Question-Answer Book

Mock 3

(2 hours for both Sections A and B)
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, Class and Class Number in the spaces 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 supplied on request. Write your Candidate Number, Class and Class Number, mark the question number box, and fasten them with string **INSIDE** this Book.
- (4) No extra time will be given to candidates for filling in the question number boxes after the 'Time is up' announcement.
- (5) The last page of this Question-Answer Book contains a list of SQL commands and spreadsheet functions which you may find useful.

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Candidate Number									
Class									
Class Number									

Answer all questions. Write your answers in this Question-Answer Book.

1. An advertisement with the following QR code linking to <http://www.sueshoes.hk/index.php> has lately been put in a magazine to promote the online store selling shoes in its own brand.



- (a) (i) Give an advantage of putting a QR code over a URL in text form in a magazine advertisement.

- (ii) Write an item that a QR code can store apart from a URL.

- (iii) Suggest a piece of hardware and a piece of software needed to read the above code.


Hardware: _____

Software: _____

- (iv) What is the use of the three  patterns in the three corners of the above code?

(5 marks)

- (b) Below shows a partial screenshot of a web page on www.sueshoes.hk.

	<div>Cognac Leather Boots Model: MLB2351C</div> <ul style="list-style-type: none">• Suede upper• Cushion insole• Rubber outsole• Double edge stitching <div>Choose your size (EU):<table border="1"><tr><td>38</td><td>39</td><td>40</td><td>41</td><td>42</td><td>43</td><td>44</td></tr></table></div>	38	39	40	41	42	43	44
38	39	40	41	42	43	44		

Answers written in the margins will not be marked.

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Answers

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34. D Option (1): The range of i is from 0 to $n - 1$, causing n iterations of the procedure.
 Option (2): The range of i is from 1 to n , causing n iterations of the procedure.
 Option (3): The range of i is from 0 to $2n - 2$, having a count of $2n - 1$. However, 'INCREMENT BY 2' means the value of i will be increased by 2 after each iteration, so there are still n iterations of the procedure.
35. C The problem of digital divide is concerned with the equity in accessing and making effective use of computers and the Internet.
36. D
37. C It is the Customs and Excise Department's responsibility to investigate intellectual property infringement.
38. C
39. C
40. B

Paper 1 (Section B)

- | | | Marks | | | | | | | | | | | | |
|-------------|---|---|------------------|------------------------------------|----------|-----|--|-------|-----|---|--------|-----|--|---|
| 1. (a) (i) | This can attract more people to access a web page as it is easier to scan a QR code than to type in a URL character by character on a mobile device. | 1 | | | | | | | | | | | | |
| (ii) | Text message | 1 | | | | | | | | | | | | |
| (iii) | Hardware: mobile device with a camera
Software: QR code scanner app for the mobile device | 1 | | | | | | | | | | | | |
| (iv) | For locating the code | 1 | | | | | | | | | | | | |
| (b) (i) | B2C | 1 | | | | | | | | | | | | |
| (ii) | Price of the boots / payment information / quantity available / terms of delivery | 1 × 1 | | | | | | | | | | | | |
| (iii) | 360° panoramic product photos | 1 | | | | | | | | | | | | |
| (iv) | Message board / button for sharing on a social networking web site / link for telling a friend | 1 × 2 | | | | | | | | | | | | |
| (v) | PHP can generate dynamic content for a web page. | 1 | | | | | | | | | | | | |
| (vi) | The palette of JPG format supports much more colours than GIF format. | 1 | | | | | | | | | | | | |
| 2. (a) | <table border="1"> <thead> <tr> <th>Whose claim</th> <th>Correct? (Y / N)</th> <th>Explanation for an incorrect claim</th> </tr> </thead> <tbody> <tr> <td>Isabelle</td> <td>N ⑤</td> <td>RAM modules can be found in most printers nowadays. They are for storing data received from a computer for printing. ⑤</td> </tr> <tr> <td>Harry</td> <td>N ⑤</td> <td>The program counter is for storing the memory address of the next instruction to be executed, but not the instruction itself. ⑤</td> </tr> <tr> <td>Oliver</td> <td>N ⑤</td> <td>The properties of malware are stored in the virus signature file, but not the anti-virus engine, of anti-virus software. ⑤</td> </tr> </tbody> </table> | Whose claim | Correct? (Y / N) | Explanation for an incorrect claim | Isabelle | N ⑤ | RAM modules can be found in most printers nowadays. They are for storing data received from a computer for printing. ⑤ | Harry | N ⑤ | The program counter is for storing the memory address of the next instruction to be executed, but not the instruction itself. ⑤ | Oliver | N ⑤ | The properties of malware are stored in the virus signature file, but not the anti-virus engine, of anti-virus software. ⑤ | 4 |
| Whose claim | Correct? (Y / N) | Explanation for an incorrect claim | | | | | | | | | | | | |
| Isabelle | N ⑤ | RAM modules can be found in most printers nowadays. They are for storing data received from a computer for printing. ⑤ | | | | | | | | | | | | |
| Harry | N ⑤ | The program counter is for storing the memory address of the next instruction to be executed, but not the instruction itself. ⑤ | | | | | | | | | | | | |
| Oliver | N ⑤ | The properties of malware are stored in the virus signature file, but not the anti-virus engine, of anti-virus software. ⑤ | | | | | | | | | | | | |
| | (① All correct) | | | | | | | | | | | | | |
| (b) (i) | The storage capacity of an external hard disk is higher. | 1 | | | | | | | | | | | | |
| (ii) | The resistance to physical shock of a USB flash drive is higher. | 1 | | | | | | | | | | | | |
| (iii) | The access time of an external SSD is shorter. / An external SSD runs more silently. / An external SSD is more resistant to physical shock. | 1 × 1 | | | | | | | | | | | | |
| (iv) | Blu-ray Disc / CompactFlash (CF) card / SD card / DVD±RW | 1 × 2 | | | | | | | | | | | | |
| (c) (i) |  | 1 | | | | | | | | | | | | |
| | (Remark: Any port indicated in the circles) | | | | | | | | | | | | | |
| (ii) | A: monitor, B: monitor | 1, 1 | | | | | | | | | | | | |