

Marking Schemes

Paper 1 (Section A)

Question No.	Key	Question No.	Key
1.	B (56)	21.	B (54)
2.	B (83)	22.	C (43)
3.	D (86)	23.	A (85)
4.	A (78)	24.	D (62)
5.	C (87)	25.	B (54)
6.	D (53)	26.	C (27)
7.	D (32)	27.	D (53)
8.	A (85)	28.	A (40)
9.	C (50)	29.	A (37)
10.	C (88)	30.	A (72)
11.	A (37)	31.	B (72)
12.	C (21)	32.	B (19)
13.	A (29)	33.	B (35)
14.	D (64)	34.	C (73)
15.	B (42)	35.	C (40)
16.	A (39)	36.	D (89)
17.	C (63)	37.	A (62)
18.	D (75)	38.	B (73)
19.	A (71)	39.	A (92)
20.	B (77)	40.	D (88)

Note: Figures in brackets indicate the percentages of candidates choosing the correct answers.

General Notes on Marking

1. This document was prepared for markers' reference. It should not be regarded as a set of model answers. Candidates and teachers who were not involved in the marking process are advised to interpret its content with care.

2. The following symbols are used:

- ✘ This symbol indicates a wrong or unacceptable answer.
- Shaded words, figures or ideas are not essential for the candidate to be awarded the point.
- / A single slash indicates an acceptable alternative within an answer.
- + A plus sign indicates that there are two pieces of information and the second part will be awarded points only when the first part is correct.

3. In questions asking for a specified number of reasons or examples etc. and a candidate gives more than the required number, the extra answers should not be marked. For instance, in a question asking candidates to provide two examples, and if a candidate gives three answers, only the first two should be marked.

Paper 1 (Section B)

	Marks
1. (a) (i) Advantage: It is easy to control / set up the printer.	1
Disadvantage: The printer can be used only when the desktop computer is on. / The desktop computer runs slower when the printer is printing.	1
(ii) (1) data of the document	1
(2) printer's firmware / startup program	1
(b) (i) WiFi network through the wireless router	1×2
Bluetooth	
USB cable	
(ii) data transfer rate / maximum length of a cable segment	1
(c) X ⇒ LAN	1
Y ⇒ WAN	1
(d) (i) DNS resolves domain names into IP addresses for the purpose of locating network services and devices worldwide.	1
(ii) Yes, John does not need it because his network is just a LAN / setup of a DNS is complicated and his SOHO network is a simple network / ISP can provide this service for him.	1
2. (a) smaller file size/ supported by many browsers	1
(b) (i) POP3, IMAP	1×2
(ii) Add Alan's email address in the trust (non-spam) list of the email client program.	1
(iii) Alan and Betty	1
(c) (i) It has a higher data transfer rate. / It consumes less electricity. / It is smaller in size. / It has a better shock resistance. / It is lighter. / It is more durable.	1×2
(ii) Yes, copyright ownership does not require any registration or declaration.	1 + 1
(d) (i) It can store more data. / It has a higher error correction capability. / It can be scanned in different orientation. / It can be made up of more types of data (e.g. Kanji)	1
(ii) It is faster to input the URL into a mobile device for accessing the web site. / It can reduce typing errors.	1
(iii) It can store a phone number or contact information. / It can store product information.	1

		Marks
3.	(a) improper viewing angle of the monitor / improper height of the monitor / distance from the monitor to his eyes too close / insufficient light / close to the window without curtain	1×2
	(b) (i) Charles would download some software that the sources come from unidentified individual users; the software might be privacy copies.	1
	(ii) Charles can share working files with other colleagues efficiently.	1
	(c) Charles' computer is infected with new computer virus in anonymous files when using BT program. Charles deactivates his anti-virus software. Charles does not regularly update the definition database of the anti-virus software.	1×2
	(d) (i) $2^{14} < 20,000 < 2^{15}$ 15 bits are needed.	1 1
	(ii) Other than the Chinese characters, there are characters of other languages such as Japanese.	1
	(e) He accesses the email account without authorization. He steals the coupon.	1 1
	(f) No, SSL is used to secure the data transmission. (encryption)	1+1
4.	(a) (i) TRANID	1
	(ii) DUEDATE – It should not be earlier than LOANDATE. FINE – It should be a non-negative number.	1 1
	(b) (i) 20101001 3 20102002 1	1 1
	(c) (i) =IF(D2>10, "Y", "N")	1
	(ii) =SUMIF(<u>C\$2:C\$160</u> , <u>G3</u> , <u>D\$2:D\$160</u>) ① or ①	1, 1
	① all correct	
	(d) (i) The content in A1 of the worksheet in the spreadsheet is deleted.	1
	(ii) There is no change in the spreadsheet.	1
	(e) The hyperlinks involve Sarah's local files. The file sizes of the multimedia elements are too large. Some videos cannot be played because some codec is missing.	1×2

		Marks
5. (a)	0	1
	<=	1
	TOTAL + T[I]	1
(b) (i)	>	1
	(ii) Yes, it is because the first comparison in the while loop (T[1] > T[1]) is redundant.	1
(c)	Execute ALG1 (or ALG2)	1
	Execute ALG2 (or ALG1)	1
	PAYMENT ← TOTAL - T[M]	1
(d) (i)	Single-user system: As the system is used to find the 20 members, one single user should be sufficient to generate the list of the members.	1 + 1
	(ii) Batch processing system: As the system will generate the list based on the monthly total amounts, it should be a batch processing system to perform the tasks in one batch each month.	1 + 1