

Paper 1 (Section A)

Question No.	Key	Question No.	Key
1.	C (37%)	21.	C (81%)
2.	A (18%)	22.	B (83%)
3.	C (59%)	23.	A (58%)
4.	C (65%)	24.	C (75%)
5.	D (83%)	25.	A (78%)
6.	B (79%)	26.	B (50%)
7.	D (83%)	27.	D (87%)
8.	A (39%)	28.	B (72%)
9.	A (97%)	29.	A (88%)
10.	D (51%)	30.	D (69%)
11.	D (60%)	31.	B (47%)
12.	D (34%)	32.	B (72%)
13.	C (59%)	33.	A (57%)
14.	A (87%)	34.	C (93%)
15.	B (76%)	35.	D (72%)
16.	B (58%)	36.	B (66%)
17.	A (61%)	37.	D (83%)
18.	C (78%)	38.	C (85%)
19.	D (39%)	39.	C (45%)
20.	B (60%)	40.	A (94%)

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

Paper 1 (Section B)

		Marks
1.	(a) The photos are kept from damage during the production. The photos can be returned to Alumni afterwards, without keeping it for a long period of time. Quality of the photos can be improved by software.	1×2
	(b) (i) The file size is smaller. / It supports compression. / It supports most browsers.	1
	(ii) It has higher quality in terms of the number of colours displayed. / The file size is smaller. / It has a higher compression ratio.	1
	(c) (i) Resolution (dpi/ppi), colour depth, file format (compression ratio)	1×2
	(ii) There is no character in the photos to be recognised.	1
	(d) naming of files (with activity names), folder structure	1×2
	(e) (i) Her computer might be infected by malware (virus, adware, ransomware, etc.) upon installation. The software may not be the updated version. The source of the software might not be legitimate and Susan might violate the intellectual property rights of the software company.	1×2
	(ii) She can acquire more proper technical support.	1
2.	(a) POP3 and IMAP are email protocols. It is convenient to synchronize email with IMAP when users read email by different devices. / With IMAP emails can be re-organised and put in folders. (file system) [✕ For POP3, emails are downloaded from a server to a single computer and then removed from the server. / Save storage space]	1, 1 1
	(b) Translate the domain name into its IP address.	1
	(c) Malicious code might be spread onto Charles' computer. / Charles' computer will be attacked through program bugs of browser. (virus infection) Spammers will know that Charles responds to the spam mail and then send him more spam mails. (spam mail) It links to web sites that Charles does not intend to visit. (phishing)	1×2
	(d) (i) 2	1
	(ii) LOTTERY, HELLO They are one correct string and one incorrect string to validate the algorithms.	1 1
	(iii) ALG2 is more efficient as it has not gone through all strings in ST.	2*
	(iv) It is easy to implement a loop to check all strings.	1

	Marks
3. (a) Solution P: Do not depend on the Internet connection. / The response time of the software is faster. / It has a better security control.	1×2
Solution Q: The installation is simple. (no installation) / It can provide up-to-date functions. / It provides backup service.	1×2
(b) (i) Memory cache: Store frequently-used program instructions/data. Bus system: It is a communication system that transfer data between major components of the server.	1 1
(ii) RAM, CPU, RAID controller, NIC ✗ROM	1×2
(c) consistent user interface → increase the efficiency colour mix, font size, contrast → display images/text in a comfortable manner	1×2
(d) The cost is higher. More time is needed to prepare for the implementation of the solution.	1 1.
4. (a) (i) a number (product ID)	1
(ii) the toy information such as its toy name, price, category and stock	1
(iii) Database of the POS system	1
(iv) quiet in operation / smaller in size / shorter printing time	1×2
(b) (i) IF(B3>=B\$1, 1, 0) ① addressing	1,1
(ii) Select data range: A2:B42 (or A3:B42) Choose chart type: Bar chart, Column chart, Line chart Set two chart properties: title, legend, axis title, data label	1×3
(c) ① Date in row ① Store and/or Store manager in the column ① Summary information (e.g. total net profit)	1×3

	Marks
5. (a) (i) Flash memory should be used as it is light in weight. (small in size, anti-shock, portable or low power consumption)	1+1
(ii) Bluetooth: It has low power consumption. / It involves simple technology. / It supports peer-to-peer network connection.	1
Wi-Fi: It supports a high data transfer rate. / It provides larger network coverage.	
(iii) The weight of the device The battery life of the device	1×2
(b) (i) 74,898	
(ii) It is not unique.	
(iii) PDATE or CUSTNO+PDATE	
(c) 44 1-2-2016 10:10 48 21-11-2015 12:20	2

* Marking criteria

- ② Illustrate a comprehensive and logical answer
- ① Illustrate a relevant answer