

Suggested answers to the Appendix B Practice Paper 02 from:

Information Technology for CSEC Examinations

by Alan Wood and Howard Campbell.

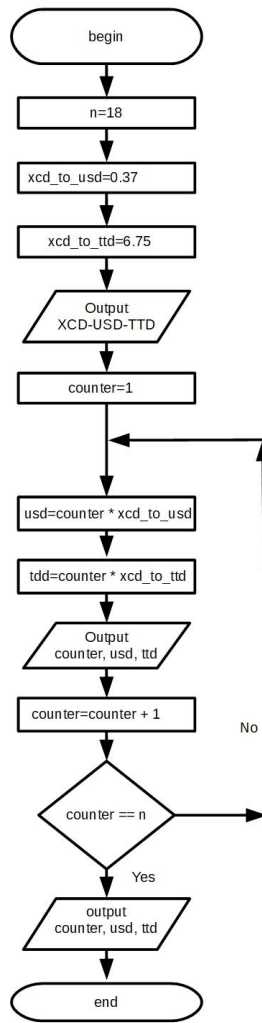
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Pages	Question	Key	Mark
	1)		
	a)	Social media specialist [1]. Web developer [1].	2
	b)	Any six from: need to think about reasons for the website [1], the intended audience [1], number of web pages [1], layout of the page [1], content of each page [1], navigation hyperlinks [1], appropriate images [1], testing [1], publishing to the WWW [1]	6
	c)	Web browser [1]. Http or https [1].	2
	d) i)	Length check works by comparing the number of characters entered against the number of characters expected [1]. In this case the airport code is always 3 characters long so the length check will report an error if fewer or more than 3 characters are entered [1].	2
	ii)	Any four from: data type check, format must be DD/MM/YYYY [1]. Presence check, a date must be present [1]. Reasonableness check, the return date must be after the departure date [1]. Length check, must be 10 characters long [1]. Range check, date must be in the open for bookings dates[1].	4
	e) i)	Uploading is from the local computer to a remote computer [1] and downloading is from a remote computer to a local computer [1]	2
	ii)	FTP or File Transfer Protocol [2 marks for correct answer, 1 mark for partial correct answer].	2
		TOTAL	20

Pages	Question	Key	Mark															
	2)																	
	a) i)	A virus or malware may infect the device.	1															
	ii)	Any two from: hyperlink may lead to obscene material causing personal distress [1], hyperlink may lead to a fraudulent website pretending to be a well known trusted website leading to identity theft [1], hyperlink may be to music piracy website causing the person to illegal purchase music [1]	2															
	b)	Any three from: Never reveal passwords or pin numbers [1]. Treat with caution any unsolicited emails [1]. Never use public Wi-fi hotspot for confidential information like online banking [1]. Don't post detail information or images like home address, birthday, friends and holiday dates [1]. Or any valid alternative.	3															
	c) i)	Hotspot [1].	1															
	ii)	Radio waves [1] but also accept IEEE 802.	1															
	d)	Any suitable values. <table border="1" data-bbox="528 772 1091 958"> <thead> <tr> <th>Field name</th> <th>Data Type</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>First name</td> <td>Text</td> <td>32</td> </tr> <tr> <td>Last name</td> <td>Text</td> <td>32</td> </tr> <tr> <td>Email</td> <td>Text</td> <td>64</td> </tr> <tr> <td>Telephone</td> <td>Text</td> <td>16</td> </tr> </tbody> </table>	Field name	Data Type	Size	First name	Text	32	Last name	Text	32	Email	Text	64	Telephone	Text	16	4
Field name	Data Type	Size																
First name	Text	32																
Last name	Text	32																
Email	Text	64																
Telephone	Text	16																
	e) i)	Email [1]. Telephone [1].	2															
	ii)	Input form [1], directly in table view [1], also accept import data.	2															
	f)	Mail merge requires a primary template document [1] which contains place holder fields [1]. Data from the data file, the database table, [1] is used to populate the place holder fields to create the bulk mail document [1].	4															
		TOTAL	20															

Pages	Question	Key	Mark																								
	3)																										
	a) i)	Any one form: tablet, laptop, netbook, phablet.	1																								
	b)	Any three from: turnaround document [1], printed from computer [1] read by computer [1]. Also accept human-readable or machine-readable [1].	3																								
	c)	Barcode reader [1].	1																								
	d)	=A4*\$B\$1 or =A\$4*B\$1 [2 marks for correct answer, 1 mark for partial correct answer].	2																								
	e) i)	<p>Relative addressing does not include \$ [1]. When a relative address is copied or moved the cell addresses are automatically updated [1]. Absolute addressing includes \$ [1]. When an absolute address is copied or moved any row or column preceded by a \$ does not change.</p> <p>Example of relative addressing cell</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th></th> <th>A</th> <th>B</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>3</td> <td>4</td> <td>=A1+B1</td> </tr> <tr> <td>2</td> <td>4</td> <td>5</td> <td></td> </tr> </tbody> </table> <p>Cell C1 copied to cell C2 is changed to =A2+B2 [1].</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th></th> <th>A</th> <th>B</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>3</td> <td>4</td> <td>=\$A\$1+\$B\$1</td> </tr> <tr> <td>2</td> <td>4</td> <td>5</td> <td></td> </tr> </tbody> </table> <p>Cell C1 copied to cell C2 is NOT changed it remains =A\$1+\$B\$1 [1].</p>		A	B	C	1	3	4	=A1+B1	2	4	5			A	B	C	1	3	4	=\$A\$1+\$B\$1	2	4	5		5
	A	B	C																								
1	3	4	=A1+B1																								
2	4	5																									
	A	B	C																								
1	3	4	=\$A\$1+\$B\$1																								
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	f)	"n" is a constant it defines how many times to loop.	1																								
	g) i)	Line 7 will be executed 18 times [1] because the counter runs from 1 to n or 1 to 18 [1].	2																								

ii)



10

[lose 1 mark for each incorrect or missing symbol]

TOTAL

25

Pages	Question	Key	Mark
	4)		
	a) i)	<p>Write 'A simple program to average the homework score and test score for 30 students.'</p> <p>total = 0 [1 mark initialise total]</p> <p>Do the following 30 times [1 mark correct loop]</p> <p> Write 'Please give the next student's homework score number '</p> <p> Read the homework score [1 mark get input]</p> <p> Write 'Please give the student's test score number '</p> <p> Read the test score number</p> <p> total = homework score + test score</p> <p>Calculate the average = total/2 [1 mark calculate average]</p> <p>Write 'The average score for this student is '</p> <p>Write the average [1 mark output result]</p>	5
	ii)	<p>Write 'A simple program to average the homework score and test score for 30 students and find the highest average.'</p> <p>total = 0</p> <p>highest average = 0 [1 mark initialise highest average]</p> <p>Do the following 30 times</p> <p> Write 'Please give the next student's homework score number '</p> <p> Read the homework score</p> <p> Write 'Please give the student's test score number '</p> <p> Read the test score number</p> <p> total = homework score + test score</p> <p> Calculate the average = total/2</p> <p> If average > highest average [1 mark for correct if]</p> <p> Highest average = average</p> <p> Write 'The average score for this student is '</p> <p> Write the average</p> <p>EndDo</p> <p>Write 'The highest average of the 30 students is '</p> <p>Write highest average [1 mark output highest average]</p> <p>[1 mark for working program]</p>	4
	iii)	Any two programming languages; Pascal [1], Python [1], C [1], Visual Basic [1], etc.	2
	b)	Any four points from: Both a spreadsheet and database program can store the student information [1]. Spreadsheets have quick and easy to use sort and filter features, in a database queries and reports have to be used [1]. Mr. Runcie could use a free, online spreadsheet [1]. Using a database would allow the data to be linked to other related data in another table e.g. a contact information table [1]. Spreadsheet programs are generally more common found on desktop computers [1]. Spreadsheet programs are primarily automatic calculation tools [1]. Database programs are primarily data manipulation tools [1].	4
	c) i)	Information Technology IT technician [1].	1
	ii)	Any two from: repairing failed computers [1], installing new computers [1], connecting computers to a network [1], installing new software [1].	2

	iii)	A network adapter attaches to a computer port to add networking functionality [1] if the computer does not already have an internal network card [1].	2																																								
	d)	<p>Begin</p> <pre> runningTotal = 0 averageScore = 0.0 for counter = 1 to 5 do print "Please enter a score" read score runningTotal = runningTotal + score endfor averageScore = runningTotal/5 print averageScore End </pre> <table border="1"> <thead> <tr> <th>runningTotal</th> <th>averageScore</th> <th>counter</th> <th>score</th> <th>output</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>0.0</td> <td>1</td> <td>2</td> <td></td> </tr> <tr> <td>2</td> <td></td> <td>2</td> <td>4</td> <td></td> </tr> <tr> <td>6</td> <td></td> <td>3</td> <td>6</td> <td></td> </tr> <tr> <td>12</td> <td></td> <td>4</td> <td>8</td> <td></td> </tr> <tr> <td>20</td> <td></td> <td>5</td> <td>10</td> <td></td> </tr> <tr> <td>30</td> <td>6</td> <td></td> <td></td> <td>6</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table> <p>Correct headings [2], first line of values [1], correct values [1], correct output [1].</p>	runningTotal	averageScore	counter	score	output	0	0.0	1	2		2		2	4		6		3	6		12		4	8		20		5	10		30	6			6						5
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