Question	Answer
1	Any 3 listed below
	Capacity, Speed, Portability, Durability, Cost

Question	Answer
2	The computer loads instructions for performing
	a <u>power-on self-test (POST)</u> from <u>ROM</u> to ensure that all the hardware
	components are functioning properly.
	The computer then loads the <u>basic input/output system (BIOS)</u> from ROM.
	The BIOS provides basic instructions on how to communicate with
	hardware components as well as where to look for an operating system.
	Assuming that an <u>operating system</u> is found on the computer's hard drive,
	its data and instructions are then loaded from the hard drive into RAM.

Question	Answer	
3(a)	Number o	f processor cores
	Speed of t	the processor
3(b)	i.	More processor cores to process more instructions
	ii.	Faster speed

Question	Answer
4(a)	Strings, alphabets only
4(b)	Format check,
	to ensure the input is in alphabets only.
4(c)	True / Word is a palindrome.
	False / Word in not a palindrome

Question	Answer
5(a)	Any method
	(CD7) ₁₆ = 3287
5(b)	Any method
	$(1101\ 1011)_2 = DB$
5(c)	Any method
	(3172) ₁₀ = C64

Question	Answer		
Question	Answer		
Question	7 (115 (16)		

6	One mark for any	stated
	Error 1:	Line 2
	Correction:	Sum = 0
	Error 2:	Line 5
	Correction:	IF Number is ODD
	Error 3:	Line 6
	Correction:	Sum = Sum + Number or Sum += Number
	Error 4:	Line 10
	Correction:	OUTPUT Sum

Question	Answer
7	Set to even or odd before data is transmitted
	If number of ones not even odd after transmission, data has occured

Question	Answer
8	1 mark each for each loop management
	2 marks for turning the turtle
	2 marks for moving the turtle forward
	import turtle
	bob = turtle.Turtle()
	bob.shape("turtle")
	bob.left(90)
	bob.forward(50)
	bob.forward(50)
	for i in range(4):
	bob.left(90)
	for i in range(4):
	bob.forward(50)
	bob.right(90)

Question	Answer
8 (a)	Phishing
8 (b)	Any 2 :
	Dubious email asking for personal information
	Email using generic greetings
	Inaccurate logos
	Hyperlink and destination link do not match
	Fake senders with email accounts from Gmail or Yahoo
	Tone of email is threatening or very urgent
9(c)	Any 2:
	Pharming
	Spamming

	Snuwara
	Virue
	Worm
0(4)	Cookie e A small sizes of data used buughsites to stars personal
9(0)	Cookie • A small piece of data used by websites to store personal
	Information on a user's web browser
	Although usually not malicious in nature, cookies are sometimes
	misused to collect personal information about users
	Pharming • The interception of requests sent from a computer to a
	legitimate website and redirection to a fake website to steal
	personal data or credit card details
	 More difficult to detect than phishing as the fake website uses
	the same address as the real website
	Phishing • The use of emails and fake websites that appear to be from
	reputable companies in order to steal personal information such
	as passwords and credit card numbers from users
	Spamming • The mass distribution of unwanted messages or advertising to
	email addresses which are collected from sources such as
	public mailing lists, social networking sites, company websites
	and personal blogs
	Spyware • A hidden program that secretly collects personal information
	about its users and transmits this information to attackers
	without the users' knowledge
	Trojan horse • A computer program that pretends to be a harmless file or
	useful application
	• Once a Trojan horse is run, it does something harmful such as
	giving intruders unauthorised access to the computer instead
	Virus • A computer program that attaches itself to a normally harmless
	program and modifies it
	• When the modified program is run by a user, the virus attaches
	conjes of itself to any other programs it can find thus
	"infecting" them
	Worm • A computer program that runs automatically and attempts to
	spread by sending copies of itself to other computers
	• Unlike a virus, a worm does not need to attach itself to an
	existing program

	T				
Question	Answer				
10(a)	4 marks for 8 correct outputs 3 marks for 6 or 7 correct outputs 2 marks for 4 or 5 correct outputs 1 mark for 2 or 3 correct outputs				
	Α	В	С		Х
	0	0	0	1	
	0	0	1	1	
	0	1	0	1	

	0	1	1	1	
	1	0	0	1	
	1	0	1	0	
	1	1	0	0	
	1	1	1	0	
10(b)	1 mark fo	r each cor	rect logic	gate, with c	orrect inputs.

Question	Annuar
Question	Answer
11(a)	B4/C4
11(b)	E4*C4
11(c)	-D4
11(d)	-B1
11(e)	Left blank or FALSE
11(f)	=FV(B4/C4,E4*C4,-D4,-B1)
11(g)	-B\$1 (adding the \$ to lock the cell)

Question	Answer
12(a)	Any 3 below
	Keep passwords secret and safe.
	 Avoid obvious password choices such as birthdates and surnames.
	• Use passwords that are a mixture of lower-case letters, upper-case
	letters, numbers and symbols.
	• Avoid re-using passwords and use unique passwords for each computer or
	online account.
	 Update passwords regularly – at least once every 90 days.
12(b)	Public key encryption
	This ensures that the encoded message can be read only by the intended
	recipient who has the secret key.

13	

Question	Answer			
Question				
14	Any eight from			
	 Initialization of 2 counters for positive and negative at start 			
	 Loop management for 10 repetitions 			
	Input number in array			
	 Checking and updating positive number counter if found 			
	 Checking and updating negative number counter if found 			
	 Checking for any number above 50 and outputting the index of that number 			
	 Printing out how many numbers greater than 0 and how many less than 0 			