

0417 Past Papers

ICT

Chapter 9

Audience

Teacher: Ashraf Al-Massou

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11	Tawara College is setting up a new website for its older students. The website will publicise the events in the college, as well as revision and sporting activities. The headteacher wants the website to be attractive to the older students and it must meet their needs.
	Before the website can be produced the needs of the audience have to be taken into account.
	Analyse the needs of this audience.
11	Eight from:
	There needs to be emoticons/clipart to grab the attention The content needs to be relevant to improve their knowledge
	There must be a balance of information and pictures with more information
	than pictures
	The use of white space is less important
	More hyperlinks to related web pages
	Fonts must be clear and readable The interface must be simple, clear and intuitive
	Slideshows, videos and images providing more information
	High contrast background
	The students need to be constantly engaged
	Needs to be interactive
	The tone of the website needs to be casual The website needs to be able to work on all platforms especially mobile ones
	The content needs to be able to work on all platforms especially mobile ones.
	Activate Wind
	Go to Settings 188

12	Discuss the disadvantages of policing the internet.
	Activate Wil6

These are points they will need to be expanded upon to gain the mark

Six from:

Removes freedom of speech

International therefore would be difficult to police

Laws are different in each country/state

The dark net would increase

Electronic crimes would move away from the internet to other places, making them harder to intercept

Internet users can be anonymous therefore it will be difficult to track down

Who chooses what is blocked could affect day to day browsing

Concern that everything you do is being watched therefore privacy is lost

Could be breaches in sending/receiving confidential/personal data as others could not see it

Increase in cost of security

Reduction in speed of browsing/search

Could lead to corruption/bribery//police may use the data

No one owns the internet so it would be impossible to police effectively

Very expensive to police the internet as extra police force has to be set up

As the internet it so big it is hard to keep track on all the activity

As the internet is dynamic it would be impossible to check everything

8 One implication of using a computer system is that people can break the law by hacking into other computer systems. Cultural, Ethical and Moral implications can also be issues.

	Cultural (√)	Ethical (√)	Moral (√)
A student has changed the contents of a company website without permission			
Writing computer games that make fun of a country's religion			
Using pictures in a document without acknowledging copyright			
Passing information to a rival company			

[4]

	Cultural	Ethical	Moral
A student has changed the contents of a company website without permission			>
Writing computer games that make fun of a country's religion	~		
Using pictures in a document without acknowledging copyright			~
Passing information to a rival company		✓	

9	When software is bought, the purchaser is subject to copyright legislation.
	Give four actions that would breach copyright legislation.
	1
	2
	3
	4
	[4]

Four from:

Making a copy and giving it away to a friend or colleague/streaming without permission

Making a copy and lending it without permission

Making a copy and selling it without permission

Using a single copy with multiple simultaneous use on a network

Using coding from the original copy in your own programs/modifying the original code

Renting out the original copy without permission

February/March 2019/12

16		A programmer is developing a presentation of a new ICT solution for a conference and needs to consider the audience.			
	(a)	Using examples, explain why presentations and ICT solutions have to take into account the type of audience.			
		[4]			
(b)		e programmer is concerned that the software used for the presentation will be copied by participants during the conference.			
	De	scribe how the software could be protected from illegal copying.			
		[4]			

Question	Answer	Marks
16(a)	Max two marks, for example: The audience could be young The audience may be teenagers The audience may be old Max three from: The solution must match the age of the audience More images, sounds, interactive with younger More words for the older/adults The audience experience may be greater More content is needed for younger people to those who are older Expectations from the audience may be different An audience of experts would expect more from a solution More explanation needed from someone who is not an expert	4
16(b)	Four from: Unique reference number/product key needs to be entered when the product is first installedthe system will check for duplicated numbers Only runs with CD-ROM/memory stick attachedparts of the software are stored on the memory stick/CD-ROM Dongle needs to be attachedparts of the software are stored on the dongle	4

7	A pie	ece of software has been created and is protected by copyright legislation.	
	(a)	Explain the need for copyright legislation.	
			[2]
(b)	Sof	tware houses have ways of preventing software copyright being broken.	
	Des	scribe four ways that the software houses can help to prevent copyright being broken.	
	1		
	2		
	3		
	4		
			[4]

Question	Answer	Marks
7(a)	Two from: It helps to prevent the unauthorised copying of the software It helps to prevent the unauthorised lending/renting of the software It gives the author legal protection	2
7(b)	Four from: A license agreement between the user and the software developer A unique licence key is used when the software is installed Software only runs if DVD/CD/Pen Drive is present Use of a dongle/card plugged into the computer Holographic sticker which cannot be photocopied shows the product is real Software built into the program to stop it being copied	4

May/June 2	20	17	/12
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12	With the	h the increased use of the internet, software copyright rules are being broken more often.				
	(a) Exp	Explain what is meant by software copyright.				
			[2]			
Qı	uestion	Answer	Mark			
	12(a)	Any two from: - Protection of software from being downloaded, copied, or borrowed without the owner's consent - Protects the author of the software	2			
(b)		re piracy is one major consequence of the failure to comply with copyright rule be the ways software can be protected from piracy.	es.			
			[4]			

12(b)	Any four from:	4
	 When the software is bought it comes with a unique activation code 	
	 this can only be used once and has to be typed in 	
	on a limited number of machines	
	Use of holograms	
	this shows that the software is a real copy	
	holograms cannot be photocopied	
	Inneregrame camerate processpec	
	Use of licence agreements	
	The purchaser fills in a licence agreement	
	and agrees to abide by the rules	
	and agrood to ablad by the railed	
	Execution of the encryption code requires a key to run	
	Zacoulon of the official pool of oquitoe a ney to fair	
	Use of a dongle	
	Guards hardware / software modules that have not been tampered with in	
	any way	
	any way	
	Digital signature on the CD	
	Digital signature on the OD	

Many people think there should be greater control of the use of the internet.
Describe the advantages and disadvantages of policing the internet.
[5]

15

Question	Answer	Marks
15	Any four from: Advantages Helps to prevent illegal materials from being shown Helps to prevent pornography (for minors) Helps to prevent discussion groups that incite hatred, racism, etc Ensure copyright laws are enforced Remove the Dark Net Safeguards the vulnerable	5
	Any four from: Disadvantages Unsuitable material is easily available in other ways The rise of mobile communications lessens the impact of the internet Freedom of speech is restricted Very difficult to enforce as the internet spans continents Maximum 5 marks	

October/November 2016/12

9	Many countries have copyright legislation which applies to the purchasing of software.	
	Give three actions that would break copyright.	
	1	
	2	
	3	
		[3]
9	Three from:	
	Making a copy and giving it away to a friend or colleague without permission Making a copy and lending it without permission Making a copy and selling it without permission Making a copy without permission from the author/licence holder Using a single copy with multiple simultaneous use on a network Using coding/images from the original copy in your own programs/modifying the original code Renting out the original copy without permission	[3]
	February/March	2015/12
16	Explain what is meant by copyright.	
		.[2]
16	Two from:	
	Lawful protectionGiven to authors of software /companies /publishers Relates to the software/name/work the author/publisher/company created/published Prohibits purchaser from making unlimited copies/lend it to others/change the software/sell software/books/intellectual property without the company's/author's permission	[2]

\Rightarrow	17	(a) Explain what is meant by software copyright.	
			[2]
			L-,
	(b)	Explain how software manufacturers attempt to prevent copyright being broken.	
			••••
			[2]
	17	(a) Two from:	

Lawful protection....

.....given to authors/software companies and publishers

Relates to the software the author/publisher/company created/published

Prohibits purchaser from making unlimited copies/lend it to others/change the software/sell it without the company's permission [2]

(b) Two from:

Encryption of the execution code requires a key to run

Use of a dongle

Registration system requiring the typing in of a registration code

"Guards" are hardware or software modules that monitor the running program and ensure that it has not been tampered with in any way

Activation code which can be used only on a limited number of machines

[2]