

# Question Bank – June 2015 R001 Mock

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## 1. The software needed to create individual graphics for animated cartoons

Paper	Question
Jan13 5a	Richard uses his smartphone to take a photograph. a) State <b>two</b> ways in which the photograph, once taken, could be manipulated to make it suitable to share on social media. For each way, explain why this is necessary. [6]
Spec 1	In order to order artwork from Richard's website, customers will need to connect to the internet. a) What type of software would be needed to view webpages? [1] b) State <b>two</b> file types suitable for a still image of a cartoon. [2] c) When customers use a computer to access the internet, state <b>one</b> output device needed to view a webpage when ordering artwork [1] d) When customers use a computer to access the internet, state <b>one</b> output device needed to produce a paper copy of the order. [1] e) When making an order, customers will be asked to provide an email address. a. Explain why Richard might want to collect a customer's email address. [2] b. Name the Act which places limits on how Richard can use personal data such as an email address. [1] f) Customers will be required to make a payment for the artwork they want to purchase. The data required to make these payments will be transferred using encryption technology. Describe how data encryption can be used to transfer this data securely. [3]
Spec 7	Richard is producing a plan for a new chapter of a book, the ideas include photographs he has taken on his smartphone of locations to base the story on. a) Richard wants to edit the photographs he has taken. State one type of software that is most suitable for editing images. [1] b) Richard needs to store a wide range of images on his computer, so that he can use them at a later date. State <b>two</b> factors that Richard should consider when storing the information on his computer. [2] c) Richard has created the first draft of the plan for the chapter. He wants to send it to Catherine so she can check it and make improvements. Describe <b>two</b> reviewing facilities of a word processing program that Catherine could use to do this. [4]
Jan15 7	Richard needs to transfer photographs from his smartphone to his laptop. a) Identify <b>two</b> methods he could use to do this. [2] b) Richard edits some of the photographs he takes to make them more suitable for the customer. He uses image manipulation software to do this. The table below shows three tools available in image manipulation software. For each tool, describe how it could be used to make the photograph more suitable for the customer. [6]

	Tool	How this makes the photograph more suitable
	Crop	
	Rotate	
	Zoom	
	c) The files Richard has edited are stored in a proprietary format. What is meant by the term 'proprietary format'? [1]	
	d) Richard exports the files in an open format. Explain why this is necessary. [2]	

## 2. The uses of a range of input and output devices, e.g.

Paper	Question															
Jan 14 1	<p>The office at Animated World Books has three desktop computers and one laptop computer.</p> <p>a) Tick <b>one</b> box in each row of the table to show whether the statement <b>best</b> describes a desktop computer or a laptop computer. [4]</p> <table border="1"> <thead> <tr> <th>Statement</th> <th>True</th> <th>False</th> </tr> </thead> <tbody> <tr> <td>Easily portable</td> <td></td> <td></td> </tr> <tr> <td>Light weight/</td> <td></td> <td></td> </tr> <tr> <td>Needs to be plugged into an electricity supply</td> <td></td> <td></td> </tr> <tr> <td>Separate keyboard</td> <td></td> <td></td> </tr> </tbody> </table> <p>b) The laptop used in the office needs to connect to the ANIMATED WORLD BOOKS network. Identify <b>one</b> device needed to connect the laptop to the network. [1]</p> <p>c) A user must enter a username and password to access the ANIMATED WORLD BOOKS network.</p> <ol style="list-style-type: none"> <li>Describe how the network operating system uses the username [2]</li> <li>State why a password is needed when logging in to the network [1]</li> <li>Give <b>one</b> reason why this password should be changed regularly [1]</li> </ol>	Statement	True	False	Easily portable			Light weight/			Needs to be plugged into an electricity supply			Separate keyboard		
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Jan15 1	<p>a) Staff at Animated World Books use a range of input devices in their work. In the table below, write the letter of the input device that best matches the purpose. The first one has been completed for you. [6]</p> <p>A. Chip and pin reader  B. Keyboard  C. Microphone  D. Mouse  E. Scanner  F. Sensor  G. Touchpad</p> <table border="1"> <thead> <tr> <th>Purpose</th> <th>Input Device</th> </tr> </thead> <tbody> <tr> <td>To move the pointer around the screen and select items on a list or menu</td> <td>D</td> </tr> <tr> <td>To capture data held on a debit or credit card</td> <td></td> </tr> </tbody> </table>	Purpose	Input Device	To move the pointer around the screen and select items on a list or menu	D	To capture data held on a debit or credit card										
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	To capture sound	
	To enter characters onto a computer system	
	To make electronic copies of paper documents	
	To measure physical variables such as light in a room	
	To move the pointer by following movements of the user's fingers	
	<p>b) When Richard travels, he takes a laptop computer so he can work while away from the office. Identify <b>two</b> features of laptop computers that make them more suitable than a desktop computer for Richard while he is travelling away from the office.[2]</p>	

### 3. Software methods used to create and improve the content of files, and the benefits of doing so

Paper	Question
Jan14 6	<p>Catherine is working on a new book called "Buzz Boy". Her colleague Richard has already created the graphics for the story.</p> <p>a) Catherine needs a hard copy of the graphics for the project. Which output device is <b>most</b> suitable for creating a hard copy of the graphics? [1]</p> <p>b) Catherine is going to draft the wording for the back cover of the book and send it to Richard in a word processing file for feedback. When he has completed his review, he will return the file to Catherine so she can finalise the cover. Explain how Catherine and Richard can use the collaborative editing tools in a word processing package to do this effectively. [6]</p>

### 4. Methods of protecting files from theft

Paper	Question
Jan14 5	<p>ANIMATED WORLD BOOKS has been advised that it needs to back up the data it stores for creating cartoons.</p> <p>a) Explain why it is necessary to back up data. [1]</p> <p>b) ANIMATED WORLD BOOKS is considering using an automated back-up system. Explain <b>one disadvantage</b> to ANIMATED WORLD BOOKS of using an automated system to back up data.</p>
Spec 3	<p>ANIMATED WORLD BOOKS stores information about a new book project in a file created in Word Processor software. State <b>two</b> ways that a word processed document could be protected from unauthorised editing. [2]</p>
Spec 5	<p>Catherine is prompted to enter her username and password when she starts up her computer. Her current password is 95pf#tws.</p> <p>a) State two features that help to make 95pf#tws a good password. [2]</p> <p>b) State <b>two</b> ways that Catherine could ensure her password is kept secure. [2]</p>

## 5. Methods of collaboration between colleagues working in different geographical areas.

Paper	Question												
Jun13 4	<p>Catherine, based in England, and Richard, who has travelled to South Africa, are working together to write the script for a new cartoon called “Buzz Boy”.</p> <p>Richard and Catherine both have computers which are connected to the internet. Richard would like Catherine to check the draft of a chapter he has written.</p> <ol style="list-style-type: none"> <li>Describe <b>one</b> method which could be used to transfer the chapter from Richard’s computer to Catherine’s via the internet. [2]</li> <li>Identify one security method that Richard could use to prevent unauthorised people reading the chapter he sends to Catherine via the internet. [1]</li> <li>Catherine needs to provide feedback about the chapter to Richard. Describe <b>two</b> features of word processing software that Catherine could use to provide Richard with feedback [2]</li> <li>Catherine would like to use an internet-based video conferencing service to speak with Richard. State <b>one</b> device that would be needed to take part in this video conference, for each of the following requirements. [5]</li> </ol> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 50%;">Requirement</th> <th style="width: 50%;">Device</th> </tr> </thead> <tbody> <tr> <td>Voice input</td> <td></td> </tr> <tr> <td>Moving image input</td> <td></td> </tr> <tr> <td>Voice output</td> <td></td> </tr> <tr> <td>Moving image output</td> <td></td> </tr> <tr> <td>Connectivity</td> <td></td> </tr> </tbody> </table>	Requirement	Device	Voice input		Moving image input		Voice output		Moving image output		Connectivity	
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## 6. Implications of collecting data from customers

Paper	Question
Jan14 9	<p>Richard needs an online data capture form on his website for customers to express an interest in buying artwork.</p> <p>In the box below design a suitable online data capture form.</p> <p>Marks will be awarded for:</p> <ul style="list-style-type: none"> <li>• Items to be included</li> <li>• Good use of space</li> <li>• Fitness for purpose</li> <li>• Annotations to justify decisions. [9]</li> </ul>
Jun13 1	<p>Richard has a website that he uses to sell artwork.</p> <ol style="list-style-type: none"> <li>Identify <b>one</b> input device that could be used to enter text onto the website. [1]</li> </ol> <p>John, a new customer, must set up an account by completing a form on the website before he can place an order. To do this, he will need to choose a username and enter the country where he lives.</p> <ol style="list-style-type: none"> <li>Explain why each username used on Richard’s website must be unique. [2]</li> <li>Explain how the form could make sure that John can enter only a valid country name. [2]</li> </ol>
Jun13 2	<p>The information that Richard collects from customers when they make a new account is stored on a database.</p>

	<p>a) State <b>one</b> output device which could be used to produce a hard copy of the information stored in the database. [1]</p> <p>b) Describe three features of database software that make it suitable for storing and analysing customer information. [3]</p>								
Jan13 5b	<p>Richard has a user form on his website which customers can fill in and submit if they want to purchase some artwork.</p> <p>a) Complete the table below to describe the purpose of each user form feature. The first line has been completed for you. [4]</p> <table border="1" style="margin-left: 40px;"> <thead> <tr> <th>User form feature</th> <th>Describe one purpose of this feature</th> </tr> </thead> <tbody> <tr> <td>Button</td> <td>A user can click this to submit the information that has been added.</td> </tr> <tr> <td>Radio button</td> <td></td> </tr> <tr> <td>Text field</td> <td></td> </tr> </tbody> </table> <p>b) Explain why the use of validation could improve the effectiveness of the data that is submitted on these forms. [2]</p>	User form feature	Describe one purpose of this feature	Button	A user can click this to submit the information that has been added.	Radio button		Text field	
User form feature	Describe one purpose of this feature								
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Spec 1	<p>a) When making an order, customers will be asked to provide and email address.</p> <ol style="list-style-type: none"> <li>Explain why Richard might want to collect a customer’s email address. [2]</li> <li>Name the Act which places limits on how Richard can use personal data such as an email address. [1]</li> </ol> <p>b) Customers will be required to make a payment for the artwork they want to purchase. The data required to make these payments will be transferred using encryption technology. Describe how data encryption can be used to transfer this data securely. [3]</p>								
Jan15 4	<p>Richard wants to gather customers’ information when they would like to purchase one of his artworks. There is a form on his website for this purpose. This form is shown below. Explain <b>three</b> design problems on the form that may make it hard to use. [6]</p>								

## 7. Legal implications of using websites and social media

Paper	Question
Spec 2	<p>Richard plans to use a photograph of a fast food restaurant on his website. He has found a suitable image on the website of a fast-food restaurant business.</p> <p>a) State the Law (Act) that must be complied with if this image is to be used on Richard’s website. [1]</p> <p>b) State <b>two</b> actions that Richard would need to take in order to use these images legally. [2]</p>
Jan 14 7	<p>Steven will design the front cover for “Buzz boy”.</p> <p>a) Steven would like to use an image he has found on the internet as the background for the cover Identify the Act that protects the rights of the artist who created the original image that Richard wants to use [1]</p> <p>b) Give <b>three</b> actions that Richard must take before he can legally use the image. [3]</p> <p>c) Richard also wants to draw an image to use on the cover. Explain <b>two</b> possible reasons why Richard might prefer to use a graphics tablet rather than a mouse when creating digital graphics [4]</p>

## 8. Data transfer technologies

Paper	Question
Spec 8	Richard often travels and works in coffee shops on his laptop computer. While he is there he needs to connect his laptop to the coffee shop wireless computer network (called COFFEESPOT). Describe how Richard can connect his computer to the COFFEESPOT wireless network. [4]
Jan15 8	When Richard has completed an illustration he uploads it directly to a server at the ANIMATED WORLD BOOKS main office. a) Describe <b>one</b> possible threat to data security that could be caused by transferring data between computers [2] b) ANIMATED WORLD BOOKS use a firewall to protect its server. Describe how a firewall protects a server. [3]

## 9. Possible negative impacts that may be caused by overuse of ICT equipment and methods of reducing, negating and avoiding these impacts

Paper	Question

## 10. Mobile phone hardware & software

Paper	Question
Jun14 1	Richard has a smartphone that he uses for work and in his spare time. a) Identify <b>two</b> input methods that Richard can use to enter information onto a smartphone [2] b) Identify <b>two</b> output devices that may be found on Richard's phone [2] c) Richard uses his smartphone to make phone calls to colleagues and friends as well as taking photographs and sharing them using social media. Describe two other ways that Richard could use his smartphone to help him with his work [4]
	a)

## 11. New media for advertising

Paper	Question

## 12. Wild Card!

Paper	Question
Jun14 3	Explain how the use of ICT by Animated World Books increases its efficiency as a business [8]