Retired Online Test Version 6 Unit 1: The Online World

BTEC Firsts Level 1/2 Information and Creative Technology

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Introduction

This retired onscreen test has been made available to centres to help you prepare your learners for their BTEC Firsts Level 1/2 external assessments.

We recommend that you use this test as a written assessment which is then either teacher marked or peer assessed.

This retired test should be used in conjunction with the Mark Scheme and the Lead Examiner's Report to clearly identify the assessment requirements. These documents are available at:

http://qualifications.pearson.com/en/qualifications/btec-firsts/information-and-creative-technology-2012-nqf.coursematerials.html#filterQuery=Pearson-UK:Category%2FExternal-assessments

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Retired Test Development

We are currently working towards a simulation test where mock onscreen tests can be taken in a real environment. However as this is being developed, we have temporarily created these PowerPoint based tests to support you.

FAQs

How can I view the videos in the test?

This document has been produced using screen captures of the retired onscreen test. As such, videos are not available in this PowerPoint document. This document should be used in conjunction with the retired onscreen test which is available on the website: http://qualifications.pearson.com/en/qualifications/btec-firsts/information-and-creative-technology-2012-nqf.coursematerials.html#filterQuery=Pearson-UK:Category%2FExternal-assessments
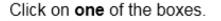
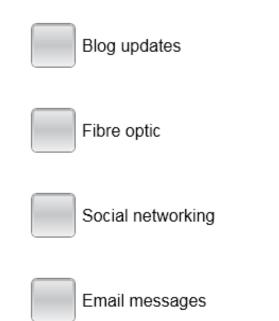**How can I see the drop down menus in the test?**

Where a drop down menu may obscure information the learner requires to answer a question, we have instead supplied a text box containing the options from the drop down menu. To view drop down menus please use the retired onscreen test.

Which **one** of these is not a method of online communication? (1)

Click on **one** of the boxes.

☐ Blog updates

☐ Fibre optic

☐ Social networking

☐ Email messages

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When Olivia sends files over the internet she sometimes needs to compress them.

Identify **two** reasons why Olivia would compress files.   (2)

Click on the **two** correct reasons.

Transfer time for compressed files is reduced

Compressing files ensures version control

Multiple files can be sent in a single compressed folder

Compressing files checks the data for errors

Higher security levels apply to compressed files

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Lamwood School stores students' personal data on its network database.

> (a) Give **one** way in which data stored on a network can be protected from external threats. (1)

Type your answer in the box.

The school controls how much of the students' personal data its receptionist can view.
This is done by using passwords on files.

> (b) Give **one** other way in which the school can control how much of the students' personal data the receptionist can view. (1)

Type your answer in the box.

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(a) Which online service would make use of video conferencing? (1)

Click on **one** of the boxes.

☐ Download services

☐ Real-time information

☐ E-voting

☐ Business

Video conferencing can help with collaborative working as group meetings can be held online.

(b) Identify **one** benefit of collaborative working. (1)

Click on **one** of the boxes.

☐ Group size is limited

☐ Files are automatically backed up

☐ Documents can be shared

☐ Files are virus free

HTML code uses tags to create tables on web pages.
Tags are shown with < >.

Identify **two** HTML tags used to create a table. (2)

Click on the **two** correct tags.

<tp>

<td>

<tu>

<tr>

<tt>

BTEC

George uses instant messaging to communicate with friends.

Identify **two** benefits to George of using instant messaging.　　　(2)

Click on the **two** correct benefits.

Messages are secure

Status settings are fixed

Messages are sent in real time

Attachments are virus free

Group messages can be sent

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Linda uses a payment card to purchase goods online.

(a) State **two** reasons why it is important that Linda's payment details are kept secure. (2)

Type your answers in the boxes.

1.

2.

(b) Give **two** ways Linda knows that the site is secure when she enters her payment details. (2)

Type your answers in the boxes.

1.

2.

All data that travels across a network is sent in packets.

Identify **one** component of a packet header.	(1)

Click on **one** of the boxes.

☐ Coded data

☐ Sender's IP address

☐ Error correction

☐ Buffer

Unauthorised access when using the internet can be described as 'access without damage' or 'access with damage'.

| Describe **one** method of accessing without damage. | (2) |

Type your answer in the box.

When using the internet, being able to navigate within a website is essential.

Identify **two** navigation tools used within websites.   (2)

Click on the **two** correct tools.

URL

Hotspot

Source code

Hyperlink

HTTP

One method of keeping data secure is to use passwords.

Identify **two** pieces of advice to follow when using a password.   (2)

Click on the **two** correct pieces of advice.

Change the password regularly

Tell a reliable person the password in confidence

Keep a written list of passwords used

Make the password something easy to remember

Use a mix of letters, numbers and symbols

Robin has accidentally deleted some files saved on his computer.
There is no back up and he has emptied the recycle bin.

Explain **two** methods that Robin could use to recover the files. (4)

Type your answer in the box.

A CODEC is a device or computer program capable of encoding or decoding a digital data stream or signal.

Identify **two** reasons why CODECs are used.   (2)

Click on the **two** correct reasons.

Compresses video files so they can be stored safely

Compresses video files and makes them playable on a computer

Compresses video files to speed up download time

Compresses video files to prevent unauthorised access

Compresses video files so that only one device is ever needed

Harry is the advertising manager for a UK-based sportswear company.
He needs to share promotional videos with staff at different sites using the internet.
He can email the video files as attachments.

Describe **two** other ways Harry can share video files with staff.   (4)

Type your answer in the box.

Dan is bidding on an online auction website to purchase an item.

Explain **two** reasons why server-side processing is used for online auction websites. (4)

Type your answer in the box.

Joe works for a car hire company that uses a relational database to store data.
The example shows the three tables in the database.

Car
Reg no
Make
Model
Cost
Transmission

Hire
Hire ID
Reg no
Customer ID
Date
Duration

Customer
Customer ID
Name
Address
Postcode
Contact no

(a) Explain the relationships between the Hire table and the other two tables. (2)

Type your answer in the box.

(b) Explain **one** advantage to the car hire company of using a relational database rather than a single table. (2)

Type your answer in the box.

A group of students has set up a social networking site.

Explain **one** way the students can use the social networking site to help them with their studies. (2)

Type your answer in the box.

Courtdown School provides reliable and fast wireless access for its students. Students are encouraged to use their smartphones to carry out research.

Discuss the use of smartphones as a research tool for students. (8)

Type your answer in the box.

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