

# **Retired Onscreen Test Version 5 Unit 1: The Online World**

BTEC Firsts Level 1/2 Information and Creative Technology

# 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:

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

# 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.

## **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:  
<https://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.

# Question 1/18

Identify which **one** of these would be used to create the source code for a webpage. (1)

Click on **one** of the boxes.

HTTP

SoC

HTML

PoP

## Question 2/18

Identify **two** types of file permission. (2)

Click on the **two** correct types of file permission.

Read only

Low control

Share only

High control

Full control

## Question 3/18



One way to protect data on a computer when online is to use a firewall.

(a) Give **one** other way to protect data when online. (1)

Type your answer in the box.

(b) State **one** way a firewall protects data. (1)

Type your answer in the box.

## Question 4/18

(a) Identify **one** component of the internet infrastructure. (1)

Click on **one** of the boxes.

Decoder

Router

Motherboard

Video card

A client is another component of the internet infrastructure.

(b) Identify **one** role of a client. (1)

Click on **one** of the boxes.

Provides online support

Connects to a web server

Maintains an index of webpages

Searches the internet



# Question 5/18



Identify **two** components of a Uniform Resource Locator (URL). (2)

Click on the **two** correct components.

User name

Path name

Server name

Domain name

Source name

## Question 6/18

Identify **two** internet protocols. (2)

Click on the **two** correct internet protocols.

TCP

DBMS

CODEC

HTTP

NAP

## Question 7/18

One advantage of using online software to create documents is that files can be shared.

(a) State **two** other advantages of using online software to create documents. (2)

Type your answer in the box.

(b) State **two** reasons why it is important to control levels of access when sharing files. (2)

Type your answer in the box.

# Question 8/18

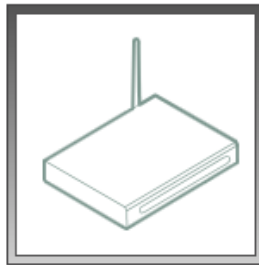
The devices shown transmit data in different ways.

Identify **one** device that uses a simplex transmission mode. (1)

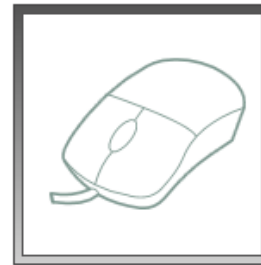
Click on the correct device.



Digital camera



Router



Mouse



Smart phone

## Question 9/18



Technology can be used to monitor employee communications in the workplace.

Explain **one** reason why an employer might monitor employee communications. (2)

Type your answer in the box.

## Question 10/18



Identify **two** terms used as part of a database structure. (2)

Click on the **two** correct terms.

Profile

Relationship

Table

Compression

Protocol

## Question 11/18



Identify **two** security issues associated with the use of email. (2)

Click on the **two** correct security issues.

Mail merge

Copyright

File encryption

Phishing

Identity theft

## Question 12/18



Goldsby Academy is a large secondary school.  
The school must ensure that it has suitable measures in place to back up electronic data.

Explain **two** factors that the school will need to consider when backing up its data. (4)

Type your answer in the box.



# Question 13/18

File Transfer Protocol (FTP) is used to transfer files over the internet.

(a) Identify **one** advantage of using FTP to transfer files. (1)

Click on **one** of the boxes.

Can transfer large files quickly

Can increase bandwidth

Can scan for viruses automatically

Can hyperlink web pages

(b) Identify **one** drawback of using FTP to transfer files. (1)

Click on **one** of the boxes.

Transferred files cannot be renamed

Transfer mode cannot be controlled

Specialist software is required

Only compressed files can be transferred

## Question 14/18



Explain **two** reasons why having a high bandwidth is important when using the internet. (4)

Type your answer in the box.

## Question 15/18

Ubiquitous computing can make use of radio frequency identification (RFID) system chips.

Explain **two** advantages of using RFID chips over traditional barcodes. (4)

Type your answer in the box.



## Question 16/18



Email uses Internet Message Access Protocol (IMAP), Post Office Protocol (POP3) and Simple Mail Transfer Protocol (SMTP).

(a) Explain **one** role of SMTP in sending emails. (2)

Type your answer in the box.

(b) Explain **one** reason for using IMAP instead of POP3 for retrieving emails. (2)

Type your answer in the box.

## Question 17/18



Explain **one** benefit of using server-side processing to submit a completed form on a web page. (2)

Type your answer in the box.

## Question 18/18



Tom owns a UK wide chain of restaurants and he is based in Scotland. He has to travel long distances to attend meetings with his staff. Tom is considering using Voice over Internet Protocol (VoIP).

Discuss the use of VoIP as a communication method for Tom and his staff. (8)

Type your answer in the box.