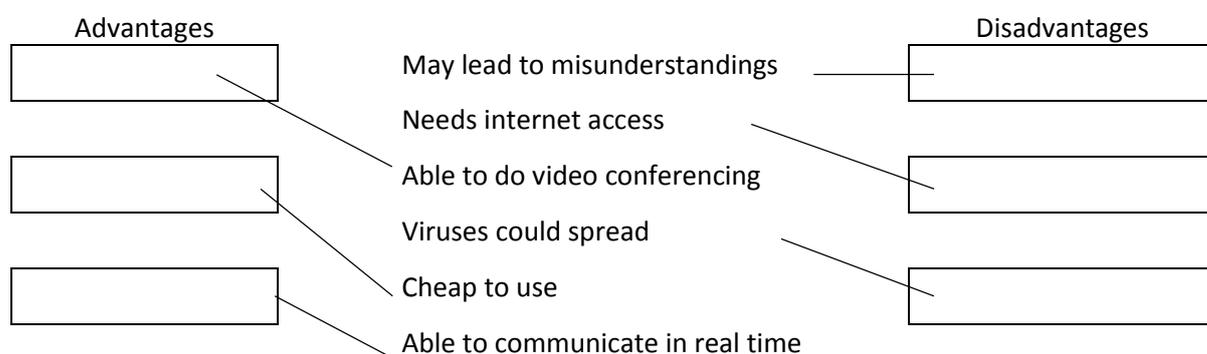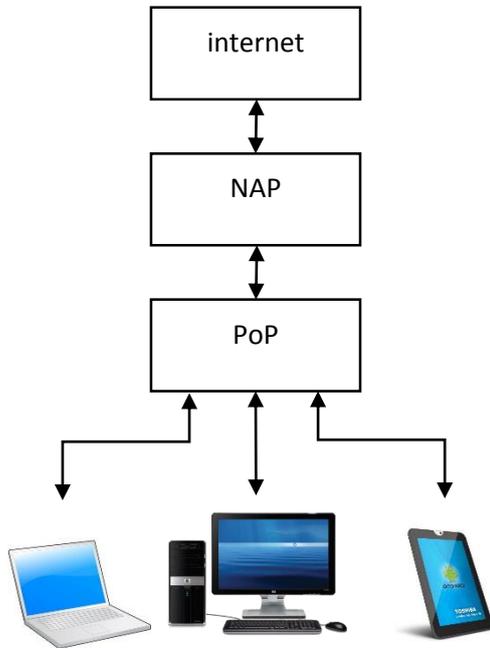# ICT BTEC Level 1/Level 2 First Unit 1: The Online World

ANSWERS

1. Online auction website
2. Collaborative working
3. A website owner can host an advert and earn money every time a user clicks on it. An advertiser can put their advert on popular websites and potentially get more custom as more users will see their advert.
4. An algorithm is used in compression to make the file smaller. An index file is included when the algorithm is used and is part of the compressed file. When the file is expanded, the index holds the information to recreate the original file.
5. If files become corrupt
   If files are accidentally deleted
6. Read
   Read/write
7. (a) Learners can submit work through a VLE as a saved digital copy and it can be scanned trough plagiarism software and then backed up. They can also create wikis that can be shared with their peers and support learning in their classes.
   (b) Teachers can share resources on a VLE, which means learners and other teachers can access them, such as worksheets, assignment briefs and support materials. They can also access them from school or at home.
8.

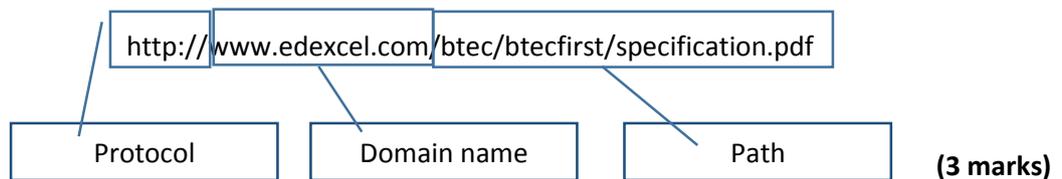| Advantages		Disadvantages
	May lead to misunderstandings	
	Needs internet access	
	Able to do video conferencing	
	Viruses could spread	
	Cheap to use	
	Able to communicate in real time	

9. The quality isn't always reliable
10. (a) In cloud computing data is saved to external servers (hosts).
    (b) In installed software, data is saved to the computer's hard drive.
11. RFIF chips are used for security. There will be scanners near each exit so if a person steals something and tries to take it through an exit without paying the alarms will sound. The benefits of RFID are that ems do not need to be scanned like a bar code, they can be scanned just by walking through the sensors.
12. Client ────── Powerful computer that controls the network
    Server ────── Device which directs traffic over a network
    Router ────── A user's device such as a laptop of smartphone

13. Answers in diagram below

```
internet
   ↕
  NAP
   ↕
  PoP
 ↙ ↕ ↘
(laptop) (desktop) (tablet)
```

14. Answers in diagram below

Rosie lives in an isolated farmhouse.	Dial-up
Paulo lives in a city apartment.	Broadband
Rachel lives on the outskirts of the city and travels into the city on the train every day working while she travels.	Wireless

15. A protocol is a set of rules to allow communication between different devices on a network.

16. A hyperlink is test or and image on a webpage that can be clicked and then takes the user to another page or file. It allows web pages to be connected together and is the element that creates the World Wide Web.

17. Click here to see more penguins

18. Three parts

http:// www.edexcel.com /btec/btecfirst/specification.pdf

| Protocol | Domain name | Path | **(3 marks)** |

19. **Sponsored links**, which has been paid for are on the top right hand side. **Adverts** are chosen based on the search key words and are below sponsored links. **Results** of the search are on the left in order of popularity.

20. Strange email address, misspelt word, request for pin number.

21. Email is sent by the sender client to the email server. It is 'stored' there until the recipient client requests access and then the email is 'forwarded' to their computer.

22. Packet switching is used for data sent across a network such as the internet. Data is prepared for transmission by being broken into packets with information such as source and destination and error checking. The packets are sent over the network separately and by different routes. They are then reassembled and check at the other end.

23.

Device	Transmission Mode	Explanation
Control system on a production line	Half-duplex	Signals go in both directions to monitor and send instructions. They do not need to go at the same time.

Mouse connecting to a computer	Simplex	Signal go in one direction at a time
Smart phone synching to a computer	Full-duplex	Signals go in both directions at the same time.

24. It is cheap and it is reliable.
25. Wireless networking mans that a user can connect a device to the internet anywhere <u>where there is an internet connection</u>.
26. Mini game
27. Client/server
     (a) Client
     (b) Server
     (c) Server
     (d) Client
     (e) Server
     (f) Client
28. Number
    Boolean
    Text
29. Easy to search for specific records
    More secure that paper records
30. Intellectual property / reputation / profits
31. Software that monitors data coming in and out of a network and protects it from viruses, malware and hackers. It puts a 'wall' around a network.
32. Carla does not know Brian personally, therefore she cannot trust what he says or know that the photos are actually of him. She should not meet him at his home as it could be dangerous. If she chooses to meet him then she should not go alone, should make sure other people know where she will be and only agree to meet him somewhere public, such as a café.