



eduresourceza.com

IT

Question 1

- 1.1a) Instruction Set – instruction / commands ✓ that the CPU can understand ✓
- b) RFID a chip ✓ that can be used to identify object using radio frequencies ✓
- c) Web sites that are interactive and are characterised by blogs wiki and forums ✓. The user provide the content ✓
- d) A total used to sum ✓ a section of data to detect errors ✓
- e) Using the services if the Internet ✓ such as file storage and applications ✓
- f) Podcast a voice or video file ✓ that can be downloaded mainly onto portable devices ✓
- g) Physical layout ✓ of the network ✓
- h) Converting a document in plain text ✓ using an algorithm ✓ to cypher test so it cannot be read
- i) Memory that has 2 channels ✓ between RAM and CPU ✓ for fast access.
- j) A signal ✓ to the CPU ✓ from an application such divide by 0.

2 X 10 = 20

Question 2

- 2.1
 - a) CPU ✓, RAM ✓ graphics card (any 2)
 - b) Hard drive ✓, network card ✓, CD drive etc
 - c) No it depends on the design ✓. Tablets may have many CPUs to handle different functions like graphics ✓
- 2.2
 - i)
 - a) Intel ✓ and AMD nVIDIA ✓
 - b) 4 processors ✓ on one chip ✓
 - c) Speed ✓
 - d) 2.8Ghz ✓
 - ii)
 - a) hard drive ✓ – magnetic, RAM – electric ✓, DVD optical ✓, SSD – magnetic ✓
 - b) hard dirve – tracks sectors ✓ moving arm write data ✓, DVD – data written in a spiral ✓ using pits/bumps ✓
 - c) Size, ✓ and use wireless
 - iii)
 - a) Tower is in the screen ✓
 - iv)
 - a) No ✓
 - b) To link to network ✓ and use resources of network charge
 - c) Mouse ✓ joystick ✓
 - v)
 - a) Reduction of size costs more ✓, storage used is more expensive than a hard drive ✓
 - vi)
 - a) UTP/Ethernet ✓ and Wireless/Wifi or Bluetooth ✓
 - b) Cable plugs into a network card ✓ on mother board attaches to a switch. ✓ Wireless connects using radio waves ✓ to a WAP ✓ which connects to the rest of the network
 - vii)
 - a) Microsoft ✓, Apple ✓

- b) Tablet require different OS software ✓ as its functionality differs slightly due to the high graphics ✓
- c) Samsung, talks easily to Windows ✓ and the blackberry ✓. Do not want to be controlled by Apple iTunes. ✓ Or an argument th other way with 2 reasons

2.3

- a) fetch, ✓ decode, ✓ execute ✓ store ✓
- b) Address ✓
- c) IR ✓
- d) control ✓
- e) acc ✓

Question 3

3.1

- a) Control file storage ✓, input and output run programs ✓
- b) each process gets enough CPU time ✓, gets enough resources ✓ and CPU used efficiently ✓
- c) running ✓, suspended ✓ or ready ✓. A process is suspended ✓ when it is waiting for input.

3.2

- a) Hybrid ✓
- b) CSMA CD ✓
- c) Ethernet ✓
- d) UTP ✓
- e) Switch ✓
- f) User Names and password – restrict access ✓ and apply rights ✓
Firewall – block sites ✓ and manage Interne traffic ✓
RAID – ensure against hard drive failure ✓ ✓
UPS – ensure against power failure ✓ and surges ✓

Question 4

- 4.1 Laptop is portable ✓, has a good speed (close to a desktop) ✓ Cost is expensive but can use for 3 year ✓, I can use Internet security software to protect, ✓ able to do all my work ✓

4.2

- a) Copying another's intellectual property without referencing ✓
- b) Easy to do ✓, info readily available ✓
- c) Online encyclopedia ✓
- d) Yes ✓ still need to reference ✓
- e) Check out the author, ✓ check for all other work they have done. Check if other authors say the same ✓

4.3

- a) Electroinc ✓
- b) Phishing is an email ✓ sent to lure user to spoofed web site ✓ to get details. Pharming when browser is altered ✓ to take user to spoofed web site ✓
- c) Secure Socket layer ✓ Padlock ✓ and https ✓
- d) A file is encrypted using a public key ✓ but can only be read using a private key. Digital Certificate ensures that web site is authentic ✓

4.4

- a) car manufacture ✓ ✓ space travel – explain each ✓ ✓
- b) true, ✓ do repetitive tasks ✓ accurately ✓