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Answer all Questions

Examination paper consist of 4 pages

Networking FAQs

How many types of network are there? .Network are classified according to different criteria: Geographical area: PANs (personal area network) typically include a laptop, a mobile phone and a PAD; LANs cover a building; MANs (metropolitan area networks) cover a campus or a city; WANs (wide area networks) cover a country or a continent.

Architecture: In a client-server network, a computer acts as a server and stores and distributes information to other nodes, or clients. In a peer-to-peer network, all the computers have the same capabilities –that is, share files and peripherals without requiring a separate server computer.

Topology or layout: In a bus network, all the computers are connected to a main cable, or bus. In a star network, all data flows through a central hub, a common connection point for the devices in the network. In a ring network, all devices are connected to one another in a continuous loop, or ring.

Network protocol: This is the language, or set of rules, that the computers use to communicate with each other. Networks use different protocols for instance, the Internet uses TCP/IP.

How do I install a wired modem router?

A modem router is a device that connects your computer or home LAN to the Internet.

1/Plug one end of the phone cord directly in to a phone jack, and the other end in to the ADSL port on the router.

2/ Plug one end of the Ethernet cable into your computer’s network port and the other end into an Ethernet port on the router.

3/ Turn on your computer. TO set up, or configure, the router, you will need to input some parameters, for example your ISP’s name and phone number

NOTE: A router has various Ethernet ports, so you can connect various PCs to the router via Ethernet cables. If you already have a hub or switch connecting a LAN, you only need one cable to connect the hub to the router.

How do I log on to the Internet service provider?

You need to type in your username and password. Once you are online, you can get email, look for information on the web, lookup IT words in dictionaries, try out new software, and sign up for RSS feeds, newsletters, etc. It is important that you remember to log off after using the Internet. An open line increases the risk of viruses, and hackers might break into your computer to steal confidential data.

What is wireless networking?

Wired networks are linked by Ethernet cables, phone lines and high-speed fiber optic cables. Wireless networks, however, use electromagnetic waves, such as radio waves, to transmit data. These are the main types of wireless networks:

- *Satellites –for long distances
- *WiMAX – for connecting Wi-Fi hotspots
- *Wi-Fi – for medium-range distances
- *Bluetooth – for short distances
- *GSM – for mobile phones

What do I need to set up a home wireless LAN?

You will need computers equipped with a wireless adapter or wireless card, a wireless access point (a wireless router) and a broadband internet connection.

Which is better, a wired or a wireless LAN?

Wired LANs are more difficult to install, but they are cheaper, faster and more reliable. Wireless networks let you move, or roam, from one access point to another, but they are less secure and subject to interference.

Part one: Reading:

Q: 1 Read the text and answer these questions? (20marks)

1/ what is a computer network?

.....

2/what are the benefits of using networks?

.....

3/LANs stand for

4/ write the differences between a wired LAN and a wireless LAN?

.....

.....

5/ how many types of networks according to, Topology?

.....

.....

6/what are the main types of wireless networks?

.....

7/In a peer to peer networks all computers have the same capabilities, what does this mean?

.....

8/what is the reason behind connecting various PCs to the router via Ethernet cable?

.....

9/ what is router?

.....

10/mention the parameters that you need to input when you set up or configure the router?

.....

.....

Q: two: Write full definitions of the following terms? (10marks)

1/machine code

.....

2/networks

.....

3/ Nanotechnology

.....

4/ Debugging

.....

5/source code

Q: three: What is English form of the following terms? (10marks)

1/XML

2/COBOL

3/MANs

4/FPS

5/WANs

Part two grammar:

Q: four: Complete these sentences with adverbial form of the words in brackets? (10marks)

1/the chess game ended (early).....at the 24.

2/you have to work (hard) to success in gaming.

3/cheap PCs don't process data (fast)enough to support high end game.

5/the Nintendo will connect (easy) to the internet.

