**Chapter 7: Communications and Networks**

**MULTIPLE CHOICE**

 1. Computer communications describes a process in which two or more computers or devices transfer \_\_\_\_.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | data | c. | instructions |
| b. | information | d. | all of the above |

 2. A communications \_\_\_\_ is a transmission media on which data, instructions, or information travel.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | route | c. | flow |
| b. | channel | d. | path |

 3. \_\_\_\_ can serve as sending and receiving devices in a communications system.

|  |  |
| --- | --- |
| a. | Mainframe computers and servers |
| b. | Desktop computers and notebook computers |
| c. | Smart phones |
| d. | All of the above |

 4. Two examples of \_\_\_\_ are cable television lines and telephone lines.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | sending devices | c. | receiving devices |
| b. | communications channels | d. | communications devices |

 5. A type of communications device that connects a communications channel to a sending or receiving device is a \_\_\_\_.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | modem | c. | PDA |
| b. | server | d. | all of the above |

 6. \_\_\_\_ is a conversation that takes place over the Internet using a telephone connected to a computer, mobile device, or telephone adapter.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | A chat room | c. | VoIP |
| b. | A newsgroup | d. | An online meeting |

 7. With \_\_\_\_, users type and send short text messages on a smart phone or mobile device.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | WMS | c. | SMS |
| b. | XMS | d. | TMS |

 8. \_\_\_\_ is a real-time Internet communications service that allows wireless mobile devices to exchange messages with one or more mobile devices or online users.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | A chat room | c. | MMS |
| b. | Wireless instant messaging | d. | Voice mail |

 9. \_\_\_\_ allows users to send graphics, pictures, video clips, and sound files, as well as short text messages to another smart phone or mobile device.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | SMS | c. | MMS |
| b. | TMS | d. | XMS |

 10. Some services use the term video \_\_\_\_ to refer separately to the capability of sending video clips.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | circuiting | c. | messaging |
| b. | posting | d. | spotting |

 11. A \_\_\_\_ is a wireless network that provides Internet connections to mobile computers and other devices.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | wi-spot | c. | quick spot |
| b. | hot link | d. | hot spot |

 12. In many public locations, people connect wirelessly to the Internet through a \_\_\_\_ using their mobile computers or devices.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | wi-spot | c. | quick spot |
| b. | hot link | d. | hot spot |

 13. For hot spots that charge users, per access fees average \_\_\_\_.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | $3 | c. | $7 |
| b. | $5 | d. | $10 |

 14. A \_\_\_\_ is a coffeehouse or restaurant that provides computers with Internet access to its customers.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | cybercafé | c. | baseband |
| b. | wi-spot | d. | quick spot |

 15. A GPS receiver is a handheld, mountable, or embedded device that contains all of the following *except* a(n) \_\_\_\_.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | radio receiver | c. | floppy disk |
| b. | antenna | d. | processor |

 16. \_\_\_\_ is a software application that helps groups of people work together on projects and share information over a network.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | Workware | c. | Groupware |
| b. | Shareware | d. | Teamware |

 17. A voice mailbox is a(n) \_\_\_\_ in a voice mail system.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | storage location on a hard disk | c. | processor |
| b. | input device | d. | output device |

 18. Groupware is a component of a broad concept called \_\_\_\_, which includes network hardware and software that enables group members to communicate, manage projects, schedule meetings, and make group decisions.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | public Internet access | c. | Web services |
| b. | workgroup computing | d. | short message service |

 19. \_\_\_\_ allows users to share documents with others in real time.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | An online meeting | c. | Voice mail |
| b. | VoIP | d. | Internet printing |

 20. To make collaboration possible among employees, some companies use a document \_\_\_\_ system, which provides for storage and management of a company’s documents, such as word processing documents, presentations, and spreadsheets.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | analysis | c. | preparation |
| b. | management | d. | storage |

 21. Businesses are the primary users of \_\_\_\_ because this technology provides a means for departments to communicate with each other, suppliers, vendors, and with clients.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | groupware | c. | global positioning systems |
| b. | Web services | d. | short message services |

 22. A \_\_\_\_ is a collection of computers and devices connected together via communications devices and transmission media.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | channel | c. | network |
| b. | medium | d. | license |

 23. A \_\_\_\_ license is a legal agreement that allows multiple users to access software on a server simultaneously.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | cellular | c. | client |
| b. | groupware | d. | network |

 24. As shown in the accompanying figure, a \_\_\_\_ is a network that covers a large geographic area, such as a city, country, or the world, using a communications channel that combines many types of media.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | local area network (LAN) | c. | wide area network (WAN) |
| b. | metropolitan area network (MAN) | d. | variable area network (VAN) |

 25. The design of computers, devices, and media in a network, sometimes called the \_\_\_\_, is categorized as either client/server or peer-to-peer.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | network topology | c. | network standard |
| b. | network architecture | d. | network protocol |

 26. On a network such as the one illustrated in the accompanying figure, a(n) \_\_\_\_ computer controls access to the hardware, software, and other resources on the network and provides a centralized storage area for programs, data, and information.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | host | c. | client |
| b. | indexed | d. | master |

 27. On a(n) \_\_\_\_ network, such as that illustrated in the accompanying figure, one or more computers act as a server and the other computers on the network request services from the server.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | dedicated | c. | integrated |
| b. | client/server | d. | indexed |

 28. On a network such as the one illustrated in the accompanying figure, the \_\_\_\_ are the computers and mobile devices on the network that rely on the server for its resources.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | nodes | c. | clients |
| b. | modes | d. | paths |

 29. On a network such as the one illustrated in the accompanying figure, some servers, called \_\_\_\_ servers, perform a specific task and can be placed with other servers to perform multiple tasks.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | baseband | c. | multitasking |
| b. | unique | d. | dedicated |

 30. A(n) \_\_\_\_ network is a simple, inexpensive network that typically connects fewer than 10 computers.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | peer-to-peer | c. | MAN |
| b. | hard | d. | interpolated |

 31. The type of peer-to-peer network shown in the accompanying figure, called a \_\_\_\_ network, describes an Internet network on which users connect directly to each other’s hard disks and exchange files over the Internet.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | file | c. | print |
| b. | P2P | d. | linked |

 32. A file server is a dedicated server that \_\_\_\_.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | stores and manages files | c. | stores and provides access to a database |
| b. | manages printers and print jobs | d. | manages network traffic (activity) |

 33. The greatest risk to a bus network is that \_\_\_\_.

|  |  |
| --- | --- |
| a. | devices attached or detached at any point on the bus disrupt the rest of the network |
| b. | the failure of one device usually affects the rest of the network |
| c. | the bus itself might become inoperable |
| d. | all of the above |

 34. A network \_\_\_\_ refers to the layout of the computers and devices in a communications network.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | event | c. | topology |
| b. | calendar | d. | glossary |

 35. As shown in the accompanying figure, a \_\_\_\_ network is a network topology in which a cable forms a closed loop, with all computers and devices arranged along it.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | bus | c. | ring |
| b. | star | d. | variable |

 36. A network like the one shown in the accompanying figure \_\_\_\_ to install.

|  |  |
| --- | --- |
| a. | must span a smaller distance than a bus network, and it is more difficult |
| b. | must span a smaller distance than a bus network, but it is easier |
| c. | can span a larger distance than a bus network, but it is more difficult |
| d. | can span a larger distance than a bus network, and it is easier |

 37. On a \_\_\_\_, such as that illustrated in the accompanying figure, all of the computers and devices (nodes) on the network connect to a central device.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | bus network | c. | star network |
| b. | ring network | d. | token ring network |

 38. On a network such as the one illustrated in the accompanying figure, the central device that provides a common connection point for nodes on the network is called the \_\_\_\_.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | hub | c. | printer |
| b. | personal computer | d. | file server |

 39. On a network such as the one illustrated in the accompanying figure, if one node fails \_\_\_\_.

|  |  |
| --- | --- |
| a. | only that node is affected |
| b. | only the nodes before that node are affected |
| c. | only the nodes after that node are affected |
| d. | all the nodes are affected |

 40. Sometimes a company uses a(n) \_\_\_\_, which allows customers or suppliers to access part of its intranet.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | Ethernet | c. | extranet |
| b. | textnet | d. | telnet |

 41. A network \_\_\_\_ defines guidelines that specify the way computers access the medium to which they are attached, the type(s) of medium used, the speeds used on different types of networks, and the type(s) of physical cable and/or the wireless technology used.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | metric | c. | matrix |
| b. | index | d. | standard |

 42. \_\_\_\_ is a network standard that specifies no central computer or device on the network should control when data can be transmitted.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | Ethernet | c. | IEEE |
| b. | Telnet | d. | Gopher |

 43. Developed by IEEE, \_\_\_\_ is a series of network standards that specifies how two wireless devices communicate over the air with each other.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | 801.11 | c. | 803.11 |
| b. | 802.11 | d. | 804.11 |

 44. The term \_\_\_\_ identifies any network based on the 802.11 family of standards.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | mesh | c. | Wi-Fi |
| b. | IEEE | d. | FireWire |

 45. Some large areas, such as college or business campuses, are set up as a Wi-Fi \_\_\_\_ network, in which each mesh node routes its data to the next available node until the data reaches its destination – usually an Internet connection.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | interpolated | c. | integrated |
| b. | synthetic | d. | mesh |

 46. Communications software consists of programs that \_\_\_\_.

|  |  |
| --- | --- |
| a. | help users establish a connection to another computer or network |
| b. | manage the transmission of data, instructions, and information |
| c. | provide an interface for users to communicate with one another |
| d. | all of the above |

 47. A \_\_\_\_ line is a temporary connection that uses one or more analog telephone lines for communications.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | DSL | c. | T1 |
| b. | dial-up | d. | T3 |

 48. A \_\_\_\_ line is a type of always-on connection that is established between two communications devices.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | dial-up | c. | dedicated |
| b. | baseband | d. | network |

 49. A \_\_\_\_ device is any type of hardware capable of transmitting data, instructions, and information between a sending device and a receiving device.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | linkage | c. | dial-up |
| b. | communications | d. | baseband |

 50. The communications device that connects a communications channel to a sending or receiving device such as a computer is a(n) \_\_\_\_.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | modem | c. | digitizer |
| b. | CATV | d. | interpolator |