Module :- 3 Understanding and Maintaining Networking

1. A
2. C
3. A
4. B (SFTP)(Secure File Transfer Protocol)
5. True
6. False
7. True
8. A hub is a basic network device that connects multiple devices in a network, while a switch is a more advanced device that intelligently forwards data to specific devices. Hubs work at the physical layer, broadcasting data to all connected devices, while switches operate at the data link layer, using MAC addresses.
9. troubleshoot network connectivity issues, start by checking all physical connections like cables and Wi-Fi to ensure everything is properly connected. Restart your computer, router, or modem to refresh the connection. Check for error messages or warning icons on your network status. try connecting with another device to determine if the problem is specific to one device or the entire network.
10. First of all go to goggle and type your ip address which give you with router after that you can see the login site in that give the 2 column. That is a username and password. Login in your password and username. Find the change the router password in setting after that change and take a stronge password(like upper later,lower later, number).3 configure wireless security section and set the security mode in WPA2 it is best security.4 set a name of your router and don’t share your password if you share after their use change the passwords. 5 do your router update on time when company give.
11. Network documentation is good for understand to things also company give that doucment everyone can do after read doesn’t matter they educated or not because in that page write a so many languages like English, hindi, Gujrati and so on that way all people understand and do their work propely. After that also company and client work are so easy to do and into document of how everything is set up, so you can work on it without confusion. Its important for troubleshooting, management, speed recover, new member can understand, main security. Speed recover:- some time our network speed is down and not responding to task so that time we are using that documents and shoutout the problem with that page also they guide the how to increase the speed step by step like this image which give a example to how to connect the cable in router.few example in that case :- network layout in give A diagram showing how devices (routers, switches, servers, computers, printers) are connected. It gives a big-picture view of the network. Makes it easier to troubleshoot the network. Another like :- Cabling Information :- Types of cables used, lengths, and where each end connects. Prevents confusion and helps in physical troubleshooting. Saves time tracing cables during changes or repairs. Also in wireless router :- SSIDs (Wi-Fi names), passwords, security mode (WPA2/WPA3), and frequency (2.4 GHz/5 GHz). Helps reconnect devices or change settings safely. Main thing their give in documentation is:- Installed Software & Licenses :- Software used in the network , versions, and license keys. Ensures legal compliance and easy upgrades. There are topic and example which are give in that documentation.