classmate Date_____ Page_____ CCA-102: Data Communication (Assignment) Q1 what are the different types of network? Any Two basic network types are local-area network (LANS) and wide area network (WANS) LANS Connect Computers and peripheral devices in a limited physical area such as a bussines office, Laboratory on college compus by means of linka. Types of network :-Personal Area Network Local Area Network *■* × | wide Areg Network System Area Network 02 Explain the Shieladedtwisted pair (STP) and unshieled twisted pair (UTP) Shielded twisted pair cable (STP) has the Ans. individual pairs of wires wrapped in fail, which are then wrapped again for double protection unshielded twisted pair Cable (UTP) has each pair of wines Twisted Together. Those wires are then wraped in taping without any other protection. Q.3. What is difference between baseband and broadband transmission? Ams. Baseband :-Baseband transmission is a data transmission technique in which one signal needs the whole bandwidth of the channel to

classmate Date Page transfer the data. Baseband transission signals travel shorter distances because attenuation is most notice-2. distances because attenuation is most nonce-able at highest frequencies, which causes a signal to travel shart distances without losing power. The baseband transmission utilizes digital signalling for signal transmission. In contrast, broadband transmission utilizes analog 3. signalling for transmitting analog signals. Broadband Transmission: -In contrast, broadband transmission id 9 transmission tecnology which many signals with different frequencies send data across a signal's singal chance at the same Time. 2. In contrast, broadband transmission does not utilize any digital encoding but it utilize the PSK encoding 3. In contrast, the signals in broad band transmission may Larger distances travel across. O.4. What is the difference between a hub, modern, router and a switch? And. + Hub :-Hub is the network connecting devices, They help in connect various devices. Hub works at the physical layer and transmits the signal to the port. to the post. > Modem :- Modems are hardware devices that allow a computer on another device, such as a nouter on switch, to connect to the

classmate internet, They convert on "modulate an analog signal from a telephone or cable wire to digital data that a computer can recognize. - Routers:-Koutens :-Router are responsible for sending data from one network to another. Typically, routers today will perform the functionality of both a router and a switch that is the router we have multiple ethernet parts that device can plug into > Switches :-They use the MAC address of a device to send data only to the part the destination device is plugged into work at Layer 2 (Data link) of the OSI model, which which deals with MAC address when you move the NIC cards from one PC Q.5. to another PC, does the MAC address gets transferred as well? Yes', that's because MAC addresses are Ans. handwired into the NIC circuitry, not the PC. This also means that a PC can have a different MAC address when the NIC cand was replace by another one when troubleshooting computer network problems, Q6 what Common hardware -related problems Can OCCUM? Most common hardware helated problems Ams. are PaBX, LAN Card, WLAN card and wi-Fi AP if it is wineless, cables, Switches, Routers and wineless controllers. Most

classmate Date _____ C problems are hardware related, a faulty power cable or power supply unit. In a network that contains two servers 07 and twenty workstations, where is the best place to install an Anti-Vinus program? The best solution is to install anti-virus on Ans. all the computer in the network. To be make secure install in all the 3 servers, of you want to. Q-8 Define static IP and Dynamic IP? Discuss the difference between IPV4 and IPV6. Ans. When a device is assigned a static ip address, the address does not change most devices use dynamic IP addresses, which are assigned by the network when they connect and change over time. 1PV4, Internet protocol version 4 is the standard protocal used most forequently today. IPV6 devices have a fixed IP address or Obtain one using a DHCPV6 server. Discuss TCP/IP model in detail. Q-9. TCP/IP Reference Model is a four-layered suite Ans. of communication protocols. It was developed by the DoD (Department of Defence) in the 1960s. It is named after the two main protocals that are used in the model, namely, TCP and IP. TCP stands for "Transmission control Protocol" and iP stands for "Internet

classmate Date_____ Page_____ what is a web Browser? Give some example Q10 of browsers. application used to access and view websites. Any. Common web browsers include microsoft Edge, Internet Explorer, Google chrome, Mozilla Finefox and Apple Safari. What is a search engine? Give example. A search engine is a web-based tool that Q11Ans. enables users to locate information on the world wide web. Popular examples of search engines are Google, Yahoo! and MSIV Search. what is the internet & WWW ? what are the 012 uses of internet in our daily life? The internet is very much useful in our Ans. daily routine tasks. For example, it helps us to see our notifications and Emails. Apart from this, people can use the internet for money transfers, shopping order online food etc. what is an Internet services provider? Give Q13. Some example of ISP in india. The examples of some internet service providers Ang. are Mathway, BSNL, Tata telesenvices, verizon Reliance Jio, ACT Fibernet and many more working in indig as well as worldwide. Anternet service providers on ISPs are responsible for providing services for using the internet.

classmate Date_____ Q.14 Discuss the difference between MAC address, IP address and fourt address. The physical address -- which is also called Ans. a media access control on MAC, address -identifies a device to other devices on the same local network. The internet address --A Network packet needs both addresses to get to its destination. Q-15. How do we view my internet browser's history? Ans 1. on your Android phone on tablet, open the chrome app chrome. 2. At the top right, tap mare and then history of your address bar is at the Bottom, swipe up on the address bar. 3. To visit a site tap the entry. To open the site in a new tab, touch and hold the entry. At the top night tab more.