1) TCP/IP is a: a) Network Hardware b) Network Software c) Protocol d) None of these 2) OSI stands for: a) Open System Interface b) Out System Interface c) **Open System Interconnection** d) Out System Interconnection. 3) TCP/IP mainly used for: a) File Transfer b) Email c) Remote Login Service d) All of these• 4) IPX/SPX used for: a) Linux b) Unix c) Novel NetWare d) Windows 5) NetBIOS is developed by: a) Microsoft b) IBM c) Sun d) None of thes 6) Which IEEE standard is developed for CSMA/CD a) IEEE 802.1 b) IEEE 802.2 c) IEEE 802.3 d) IEEE 802. 7) Which is the part of Data Link Layer: a) LLC b) MAC c) Both a and b d) None of these 8) Which network architecture is developed by IBM? System Network Architecture b) Digital Network Architecture Distributed Network Architecture Boroughs Network Architecture d) 9) ___ are hardware and software combinations that connect devices running different native protocols. a) Protocols b) Models c) **Gateways** d) **Ports** 10) Which is the lowest layer of TCP/IP model: a) Host to Host Layer b) Network Access Layers c) Internet Layer d) **Application Layer** is an access channel for computers to exchange information. 11) a) Socket **b) Port** c) Gateways d) Protocol 12) How many ports a computer may have: a) 256 b) 128 c) 65535 d) 1024 13) Which is the type of port: a) Serial b) Parallel c) AGP d) All of these bits of data at a time: 14) Parallel port can transfer a) 2 b) 4 c) **8** d) 16 15) Parallel Port can not connect: a) Printers b) Scanners c) Telephones d) Monitors 16) In computer which range is in registered ports: a) 0 to 1023 b) 1024 to 49151 c) 49151 to 65535 d) None of these 17) USB stands for: a) United Serial Bus b) Universal Serial By-Pass c) **Universal System Bus** d) Universal Serial Bus 18) Which is the fastest port for data transfer: a) USB b) Serial c) Parallel d) **FireWire** 19) Default port for HTTP: a) 23 b) 80 c) 21 **d**) 25 20) Which is not the part of the UDP datagram: a) Source Port b) Destination Port c) Checksum d) None of these 21) Which is the type of socket: a) Datagram b) Raw d) All of these Stream c) 22) In which layer of OSI model IP is available: a) Layer 1 b) Layer 2 c) Layer 3 d) Layer 4

23) IP is defined in: a) RFC 790 b) RFC 791 c) RFC 792 d) RFC 793 24) TTL stands for: a) Time-To-Login b) Time-To-Live c) Transistor-Transistor-Live d) None of these 25) Which protocol is used to report error message: a) TCP b) IP c) **ICMP** d) 26) Which is the error message reported by ICMP: a) Time exceeded b) Host unreachable c) Echo request d) All of these 27) What is the use of IP source routing: a) Mapping the network drive b) Troubleshooting c) Performance d) All of above 28) Which is the IP source routing method: a) SSR b) LSR c) LLR d) Both a and b 29) In a TCP header source and destination header contains: a) 8 Bits b) 16 Bits c) **32 Bits** d) 128 Bits 30) Which is the false statement: TCP enable dataflow for monitoring b) It avoid network saturation TCP makes communication between server and client) d) In TCP/IP model Internet layer is closest to the user) 31) Which is not the application level protocol: a) FTP b)S/MIME c) PGP d) HTTP 32) RDP server runs on: a) Computers b) Switches c) Routers d) Servers 33) RDP client runs on: a) Clients b) Routers c) **Hosts** d) Switches 34) Which is the false statement: Telnet is used for remote login. b) FTP can transfer fi **TFTP rely on TCP.** d) SMTP used to send mail message. FTP can transfer files between two hosts. 35) The default port for SMTP is: a) 21 b) 23 c) **25** d) 80 36) SNMP used for: a) Sending Message b) Network management c) Domain Management d) Sending files 37) Which agency assign IPs: a) IEEE b) ANSI c) ICANN d) **BSNL** 38) Which is the component of IP: a) Client Identifier b) Network Identifier c) Host Identifier d) Both b and c 39) Which IP address is reserved for loop back or local host: a) 192.168.0.0 b) 127.0.0.0 c) 127.0.0.1 d) 126.00.0.1 40) Which class of IP is used in smaller organizations: a) Class A b) Class C d) Class D Class B c) 41) The size of the IPv4 is: a) 16 Bits **b) 32 Bits** c) 64 Bits d) 128 Bits 42) Which is the part of IP: a) Netid b) Subnetid c) Hosted d) All of these 43) The subnet mask 255)255)0)0 belongs to: a) Class A b) Class B c) Class C d) Class D 44) Who provide us internet: a) TCP b) ISP c) FTP d) HTTP 45) In which method we can connect to internet SLIP c) PPP d) All of these a) Dial-up b)

- Internet Technology: Jojo Computer Institute 46) URL stands for: a) Universal Resource Locator b) Uniform Resource Locator c) Uniform Radio Locator 47) Which is not the server side programming language: a) JSP b) ASP c) JavaScript d) PHP 48) FTP can be runs on: a) Unix b) Linux c) Dos/Windows d) All of these 49) In HTTPS 'S' is stands for: None of these a) Simple **b) Secured** c) Server d) 50) Which is not the requirement of internet: a) Operating System **b) Dos** c) Web browser d) Modem 51) The maximum speed of Modem is: **56 Kbps** c) 128 Kbps a) 32 Kbps **b)** 64 Kbps d) 52) Which protocol is used for browsing website: a) TCP **b) HTTP** c) FTP d) TFTP 53) Which is not the browser: a) Internet Explorer b) Opera c) Mozilla d) Google 54) Which is not the search engine: a) Google b) Bing c) Yahoo d) Orkut 55) Email stands for: a) Easy mail **b) Electronic mail** c) Electric mail d) None of these 56) Which is the chatting application: a) Yahoo messenger b) Google earth c) You tube d) None of these 57) Which service provide 3D view of earth: a) Google Earth b) Wikipedia c) Skype d) None of these 58) Which is the threats for clients: a) Virus b) Worms c) Torjan Horses d) All of these 59) Which is not the application of internet: a) Communication b) Banking c) Shopping **d**) Sleeping 60) Which is the advantage of e-business: a) Better Service b) Reduction of cost c) Reduction of paper work **d**) All of these 61) Modulator and demodulator as combine is known as: a) Modulus **b) Modem** c) Mod switch d Mod access 62) Which of the following network device has the slowest type of connection? a) DSL b) Router c) Bridges d) Dial-up modems 63) Which of the following is an example of Personal Area Networking? a) Bluetooth b) WAN c) WLAN d) All of the above 64) A place where there is a field of signal through which you can access WiFi internet is called a) Wi-Fi Hotspots b) Wi-Fi Internet c) Wi-Fi Zone d) Wi-Fi Range 65) Which network is able to connect and send data to each computer via central hub or switch without looking where the data is sent? a) Star b) Router c) Bus d) LAN 66) Which network is able to connect to each computer through a common central line?
 - a) Only one b) Two c) Three **d) Four**

67) Which topology allow to connect computers including server in a ring?

a) Bus b) Star c) router d) WAN

a) Star b) Tree **c) Ring** d) LAN 68) How many different type of server exist?

Internet Technology : Jojo Computer Institute

69) Which type of network is used for small geographical area such as in a one building?
a) WLAN b) MAN c) LAN d) WAN
70) Which networking device connect one LAN to other LAN using same protocol?
a) Router b) Switch c) Bridge d) Modem
71) Which of the following is an anti-virus program
a) Norton b) K7 c) Quick heal d) All of these
72) All of the following are examples of real security and privacy threats except:
a) Hackers b) Virus c) Spam d) Worm
73) Trojan horses are very similar to virus in the matter that they are computer programs that
replicate copies of themselves
a) True b) Fake
74) monitors user activity on internet and transmit that information in the background to someone else.
a) Malware b) Spyware c) Adware d) None of these
75) Viruses are
a) Man made b) Naturally occur c) Machine made d) All of the above
76) Firewall is a type of
a) Virus b) Security threat c) Worm d) None of the above
77) Unsolicited commercial email is known as
a) Spam b) Malware c) Virus d) Spyware
78) Which of the following is not an external threat to a computer or a computer network
a) Ignorance b) Trojan horses c) Adware d) Crackers
79) When a person is harrassed repeatedly by being followed, called or be written to he / she is a target
of
a) Bullying b) Stalking c) Identity theft d) Phishing
80) Which of the following is a class of computer threat
a) Phishing b) Soliciting c) DoS attacks d) Stalking
81) Who is the father of Internet?
a) Vint Cerf b) Tim Berners Lee c) Charles Babbage d) None of these
82) Who is the founder of the Internet?
a) Vint Cerf b) Charles Babbage c) Tim Berners-Lee d) None of these
83) Who invented world wide web?
a) Tim Berners Lee b) Sir Thomas c) Charles Babbage d) None of these
84) Who is the father of email?
a) Tim Berners Lee b) Charles Babbage c) Paul Buchheit d) Ray Tomlinson
85) Internet's initial development was supported by
a) Microsoft b) ARPANET c) Bill Rogers d) Bill Gates

000000

INTERNETTECHNOLOGY(DCA-104)

1. INTRODUCTIONTOINTERNET: (8MARKS)

- 1) Website is a collection of html documents, graphic files, audio and video files.
- 2) The first network that planted the seeds of the Internet was **ARPANET**.
- 3) Full form of ARPANET is **The Advanced Research Projects Agency Network (ARPANET)**.
- 4) The communication protocol used by the Internet is **TCP/IP**.
- 5) TCP/IP stands for Transmission Control Protocol/Internet Protocol, which is a set of networking protocols that allows two or more computers to communicate
- 6) The **first page** that you normally view at a Website is its **Home Page**.
- 7) A word that looks <u>underlined</u> on a Web page is usually a '**link**' to another Web page.
- 8) The equipment needed to allow most home computers to connect to the Internet is called a **MODEM**.
- Voice mail, e-mail, online services, the Internet and the WWW are all examples of Telecomputing.
- 10) The internet is a single, but very large network of networks of computers.
- 11) An e-mail address is not case-sensitive.
- 12) A set of rules is known as **protocol**.
- **13)** The URL specifies the Internet address of a file stored on a host computer connected to the Internet.
- 14) When the cursor pointer changes to a hand, you are over a hyperlink.
- 15) Tim Berner-Lee is the "Father of the WWW".
- 16) The term "**thumbnail**", refers to a small version of a large graphical image that you can usually click to display the full-sized image.
- 17) Guidelines that explain proper "behaviour" when posting and replying to articles on the Internet are called **Netiquette**.
- **18) Internet** is network of networks.
- 19) ISP full form is Internet Service Provider.
- **20)** Netiquette are the conventional rules for correct behaviour on the Internet.
- **21) Demodulator** is an electronic device in a modem which decodes an incoming signal and extracts data.
- **22) Ping command** is used to check the connectivity of a live network.
- 23) Shareware is software that is distributed for free on a trial basis.
- **24)** Compress refers to shrink and store data in less space.
- **25) Modem** is a connecting device between computers over a phone line.
- 26) The central structure that connects elements of a network is known as the **backbone**.
- 27) A company that offers Internet access is known as Internet Service Provider (ISP).
- 28) A **Packet Switching system** permits multiple pairs of computers to communicate across a shared network with minimal delay.
- 29) Menus embedded in text are called **hypertext**.

- **30) Internet** is a global network connecting millions of computers which is used to exchange data, news and opinions.
- 31) The most common transfer protocol used on the Internet is **HTTP**.
- 32) A **Web Browser** is an application that displays Web pages.
- 33) Typing the **URL** correctly is essential to finding Web pages.
- 34) A **packet sniffer** is a program that captures data from information packets as they travel over the network.
- 35) A **ZIP** program is used to archive and compress files.
- 36) Connecting to the Internet requires four things: PC, Modem, Telephone line, and Internet software.
- **37**) **E-commerce or electronic commerce** means buying and selling items online.
- **38) The Information Technology Act (ITA), 2000** consists of 94 sections.
- 39) Intellectual Property Right deals with trademark, patent and design rights.
- **40) Codec** is Coder-decoder. A device which is used to encode or decode a digital data stream.
- 41) The full form of **MODEM** is **Modulator / Demodulator**.

2. SERVICESONINTERNET: (8MARKS)

- 1) E-mail is Electronic Mail.
- 2) E-mail is a method of sending messages, voice, video and graphics over the internet.
- 3) An **email address** is a unique identifier for an <u>email</u> account.
- 4) Every email address has two main parts: a username and domain name.
- 5) In this jojocomputerinstitute@gmail.com, "jojocomputerinstitute" is the username and gmail.com is the domain name.
- 6) The **web** is the most popular Internet service next to e-mail.
- 7) Full form of WWW is **World Wide Web**.
- 8) The **WWW** is an Internet-based global information system.
- 9) In the year 1993, the first graphical interface software package called **Mosaic** was released.
- 10) A web browser is a program you use to view pages on Net and navigate the WWW.
- 11) Browsers are sometimes referred to as Web clients.
- 12) Currently, the most popular browsers for the WWW are; **Google Chrome, Mozilla Firefox, Internet Explorer, UC Browser, Opera Web Browser, Safari Web Browser etc.**
- 13) There are dozens of different ways of getting the information on the Internet, namely, **FTP**, **Gopher**, **Usenet news**, **WAIS databases**, **Telnet and e-mail**.
- 14) Full form of **FTP** is **File Transfer Protocol**
- 15) WAIS full form is Wide Area Information Server.
- 16) Full form of **HTTP** is **HyperText Transfer Protocol**.
- 17) A **web server** is a program that runs on a Website and is responsible for replying to Web browser requests for files.
- 18) A web server is HyperText Transfer Protocol (HTTP) server.
- 19) The **client server requests** and the **server returns** a *HyperText Markup Language (HTML) document*.

- **20)** Websites need host computer and server software.
- 21) The **host computer** must have **a unique IP add**ress to send and receive information across the Internet.
- 22) Example of URL is; https://www.amazon.in, https://www.google.com
- **URLs** are always *case-sensitive*.
- 24) Every page on the Web has a unique address called a **URL**. *Eg., https://youtu.be/w4epP1zOlw*
- 25) URL full form is Uniform Resource Locator.
- 26) The full form of **Telnet** is **Telecommunication Network**.
- 27) The **Telnet service** allows an Internet user to log in to another computer somewhere on the Internet. This action is also called **'remote login'**.
- 28) You can access many host on the Internet by using **Telnet**.
- 29) The **FTP service** allows an Internet user to move a file from one computer to another on the Internet.
- **30)** Usenet stands for User Network.
- 31) Usenet is an international, non-commercial network, linking thousands of UNIX-based sites.
- 32) A **search engine** is a software that searches through a database of web pages for specific information.
- 33) Some popular **search engines** are; Google, Yahoo, Bing etc.
- 34) The **telnet protocol** assumes that each end of the connection the client and the server is **Network Virtual Terminal (NVT)**
- **Telnet** works with the **Terminal Emulation Protocol**.
- The act of exploring the Web is known as **surfing**.
- 37) Shift + Tab selects the previous tab.
- 38) Collection of Usenet is **Usenet**.
- **39**) Web forms give you the ability to upload or post information on to a website.
- **40) HTTP** is the most common protocol to access URL address on the Internet.
- **41) Domain Name System (DNS)** is an acronym for the address of a document found on the Internet.
- 42) The **URL describes** the hierarchical directory or folder structure on the host computer that stores the file.

3. ELECTRONICMAIL: (8MARKS)

- 1) **SMTP** is a simple TCP/IP protocol.
- 2) A simple protocol used for fetching e-mail from a mailbox is **POP3**.
- 3) POP3 full form is Post Office Protocol version 3.
- 4) E-MAIL address is made up of **two parts**.
- 5) The two parts of e-mail address are separated by the @ symbol.
- **6) UUCP** is a Unix-to-Unix File Copy Protocol.
- 7) The program supplied by VSNL (Videsh Sanchar Nigam Limited) when you ask for Internet connection for e-mail is **Pine**.
- 8) SMTP stands for Simple Mail Transfer Protocol.

- 9) The e-mail component of *Internet Explorer* is called **Outlook Express**.
- 10) Messenger Mailbox is present in **Netscape Communicator**.
- 11) A convenient place to store contact information for quick retrieval is **Address book**.
- 12) Bounced mail returns to sender.
- 13) Mail bombing means flooding an e-mail account/server.
- 14) IMAP can access e-mail without downloading.
- 15) Unsolicited commercial e-mail is called **Spam**.
- 16) The process of directing a message to the recipient's host is called **Routing**.
- 17) To read incoming mail, choose **Inbox**.
- **18) BCC** is called Blind Carbon Copy.
- 19) Messenger allows you to store e-mail addresses in its address book.
- 20) If any person writes his signature in a message, then the signature of that person is stored in *a file in a binary form* called **Signature file**.
- 21) Digital signature is a mechanism for authentication and data encryption.
- 22) MIME stands for Multipurpose Internet Mail Extensions.
- **23) MIME** is a widely used Internet standard for encoding binary files to send them as email attachments over the Internet.
- 24) IMAP stands for Interactive Mail Access Protocol.
- **25**) **SMTP** is a simple ASCII protocol.
- **26) ASCII** full form is **American Standard Code for Information Interchange**.

4. CURRENTTRENDSONINTERNET: (8MARKS)

- 1) Java is a computer language developed by Sun Microsystems in 1995.
- 2) Java is a high level language, objected oriented language.
- 3) Java is now owned by Oracle Company.
- 4) When Java programs are run inside a browser, they are called **applets**.
- 5) ActiveX is a software framework created by Microsoft.
- 6) The three most important programming tools associated with Web technology are **Java, JavaScript and ActiveX**.
- 7) **JavaScript** can be combined directly with HTML.
- 8) **JavaScript** is a scripting language.
- **9) Digital subscriber line** (DSL; originally **Digital Subscriber Loop**) is a family of technologies that are used to transmit digital data over telephone lines.
- **10**) **JavaScript** was originally developed by Netscape Navigator.
- **11) MBone** (Multicast Backbone) is a special internet high-speed backbone capable of sending vast amount of information.
- **12) Streaming Video** lets the receiving computer start playing the video while the file is being transmitted.
- 13) E-commerce is maintaining business relationships and selling information using Internet.
- **14) In Video conference,** you can talk live with someone and see them live on your computer screen.
- 15) Amazon.com comes under the Business to Consumer (B2C) model.

5. <u>INTERNET SECURITY MANAGEMENT CONCEPTS</u>: (8MARKS)

- 1) SSL (Secure Socket Layer) allows secure connection.
- 2) Networks are vulnerable to computer crime like hacking, viruses and software piracy.
- 3) A proxy server is used as the computer with external access.
- 4) The proxy service hides the internal host and service.
- 5) Password is the method of authentication.
- 6) Confidentiality, integrity and availability are basic requirements of Internet Security.
- 7) In copyright, only expression is protected, not facts or ideas.
- 8) Firewall is hardware or software designed to protect against network hackers.
- 9) Firewalls cannot protect computer against viruses.
- 10) The process of translating information from its original form into an encoded incomprehensible form is called **encryption**.
- 11) A good firewall system should be flexible.
- **12) Stageful Inspection** is one type of Firewall.
- 13) Callback is a security feature.
- 14) Collection and analysis of data is called **Auditing**.
- **15) Hacker** is a computer enthusiast or expert who gains unauthorized access to computer systems for the purpose of stealing corrupting data.
- **16) Firewall** stops unwanted traffic from entering the network.
- **17**) **Cryptography** is a tool that can be used to keep information confidential and to ensure its integrity and authenticity.
- 18) Cryptography involves two processes, namely, encryption and decryption.
- **19) Packet Filters** allows network administrators to limit a user's access to specific services on the network.

00000

Points to remember:

- **1. Internet**: The network of networks wherein billions of computers globally are connected to one another.
- **2. Protocol**: A set of rules that are used by networks and computers to communicate with each other in a logical fashion.
- **3. IP Address**: Every computer or a device connected on the Internet has address called Internet Address or the IP Address. It is used to exchange information and emails betweens.
- **4. Modem**: Modulator Demodulator.
- **5. Routers**: Devices used to direct Internet traffic by determining th optimum path that can be taken by the data to reach from the host computer to the destination computer.
- **6. Packets**: When a computer sends data over the Internet, it is broken up into pieces called packets by the TCP protocol.
- **7. Broadband**: A connection that provides faster internet access, enabling users to view web content faster and download or upload files more quickly.

- **8. Web browser:** Software that displays information on your computer by interpreting the HyperText Markup Language. Eg., Google Chrome, Internet Explorer, UC browser, Mozilla Firefox, etc.
- **9. Web server:** A powerful computer on the Internet that stores web pages and delivers web pages to the users.
- **10. Web page:** A digital page incorporating text and any or of the multimedia elements like graphics, sound or animation.
- 11. Website: A combination of multiple web pages.
- 12. Web Address: The Address of a website over the Internet. Eg., http://mail.google.com/mail/
- **13. Home page:** The top page of a website.
- **14.** The World Wide Web Consortium (W3C) develops standards for the evolution of the fastest growing part of the Internet.
- **15. Internet Service Providers (ISPs)** provide their consumers with Internet access by connecting to the high-speed backbones.
- **16.** LAN full form is Local Area Network.
- 17. WAN full form is Wide Area Network.
- **18. DHTML** is an advanced version of HTML. It can perform animations and is more interactive and flexible than HTML.
- **19. WAIS** is a search tool over the Internet. It has the capability of searching multiple databases at a time.
- 20. Pages on the Web are built using a markup language called **HyperText Markup Language** (**HTML**).
- 21. In 1960s, **Defence Advanced Research Projects Agency (DRPA)** of USA researched on connecting computers. The first network was called **ARPANET** and it initially connected academic and military research centres.
- **22.** The Advanced Research Projects Agency Network (ARPANET) was an early packet-switching network and the first network to implement the TCP/IP protocol suite.
- **23. 4G**, short for fourth generation, is the fourth generation of wireless mobile telecommunications technology.
- 24. The web address is expressed as four numbers separated by dots such as **192.168.0.168**. It is also called as **Internet Protocol (IP)** address.
- 25. Internet speed is measured in **megabits** (Mb) per second. It is often abbreviated as "Mbps."
- 26. A bit is a binary digit, or a small unit of computerized data.
- **27. FTP File Transfer Protocol**; It is used to download and upload files over the Internet.
- **28. Telnet** A protocol that helps to establish connection between two computers over the Internet.
- **29. Gopher** A protocol helps in distributing, searching, and retrieving documents over the Internet.
- **30.** Google, Bing, Ask, IE, UC Browser, Lycos, Excite, WebCrawler and khoj are some of the popular search engines over Internet.
- **31. Chat** Online textual communication between two persons.

- **32.** Channel Topic under chat.
- 33. Chat rooms Websites offering online chat.
- **34. Instant messaging –** Private one-to-one communication between two persons.
- **35. E-learning** It is a wide set of applications and processes which use all available electronic media to deliver education and training.
- **36.** E-banking Facility to do banking transaction on the computer.
- **37. E-shopping** Also known as online shopping; system of consumers buying goods and services from a seller interactively over the Internet.
- **38.** E-reservation or Computer Reservations System (CRS) is a computerised system used to conduct transactions like booking or cancellation of air, rail or bus tickets.
- **39.** Social media A wide range of Internet-based and mobile services that permit users to participate in online exchanges post content or join online communities.
- **40. Blog** A type of website, maintained by an individual who keeps updating it with his/her views and comments.
- **41. Blogger** A person who posts entries in a blog.
- **42.** Blog post An individual article on a blog.
- **43.** Newsgroup A forum in which people from all over the world participate in discussions.
- **44. Plug-in**: A piece of software used to display the files that a web browser is unable to display.
- **45. Tabbed browsing**: Feature that allows several web pages to be opened simultaneously.
- **46. InPrivate browsing**: Feature that lets users access the Internet without creating history record of sites visited and saving cookies.
- **47. Pop-up**: A small browser window that appears on the top of the existing browser window.
- 48. HTML was created by Tim Berners-Lee in 1989.
- **49. XML** stands for Extensible Markup Language. XML is not replacement of HTML.
- **50.** No one actually owns the Internet.
- 51. List of internet service providers in India are; **Jio, Airtel, BSNL, Tata Teleservices, Vodafone Idea, ACT Fibernet, MTNL, Hathway, You broadband, GTPL Broadband Pvt. Ltd.**

Book references:

- 1. DCA TEXTBOOK Internet Technology and Web Design (O Level made simple) By Prof. Satish Jain, Shashank Jain, Shashi Singh, M. Geetha Lyer.
- 2. DCA reference book: ComputerAhead CBSE Class X TextBook By Rajiv Mathur.

000000