

Answer the following question in one sentence. (6x1=6)

Fundamentals of Computer (2X1=2)

1. What is search engine?

Search engine is a software program that helps people find the information they are looking for online using keywords.

2. Write the name of any two search engine?

www.google.com , www.bing.com

3. What is the business done through the internet?

Ecommerce

4. Define Local Area Network (LAN).

Local Area Network is a group of computers and other networking devices connected to each with the help of communication medium in a small area such as a room, a building or a school.

5. Define Metropolitan Area Network (MAN).

Metropolitan Area Network is a group of Local area networks interconnected with the help of communication medium in a larger area geographical such as an university, an entire city, a bank etc.

6. Define Wide Area Network (WAN).

Wide Area Network is a group of both Local area networks and Metropolitan Area Networks interconnected with the help of communication medium that extends globally.

7. What is Downloading?

The process or accessing or saving files from internet to user device are called as downloading.

8. What is Uploading?

The process of sending or storing files from user's Computer to internet is called Uploading.

9. Define network protocol.

A network protocol is a set of rules that govern the communication between devices in a computer network.

OR

A set of rules under which data transmission takes place between sender and receiver.

10. What is cybercrime?

The criminal activity done by using computer and internet or other electronic device is called cyber crime. Eg Email fraud, phishing, Hacking, Piracy etc.

11. Define computer ethics.

Computer ethics is a set of moral principles or code of conducts that regulate the use of computers systematically without making harm to other users.

12. List any two services of internet.

The two services of internet are World Wide Web and Electronic Mail.

13. Define firewall.

A firewall is a network security device that monitors incoming and outgoing network traffic and permits or blocks data packets based on a set of security rules.

OR

A firewall is the network security systems that monitors and controls the traffic flow between the Internet and private network on the basis of a set of user-defined rules.

14. What is internet?

The internet is a global system of connected networks that consists of millions of computers, servers, routers, and printers on every network.

Global network of Networks is called internet.

15. What is Email ?

Email (Electronic Mail) is a method of exchanging digital messages between people using the Internet or other computer networks.

16. Define AI.

AI is an emerging branch in computer science, which interprets the means and method of making intelligent computers or machines which, can think like human beings.

Artificial Intelligence is the simulation of human intelligence processes by machines, especially computer systems.

The artificial intelligence that refers to simulation of human intelligence in machine that are programmed to think like humans or mimic their actions is Called AI.

17. What is browser?

A special type of software which is used to access website or webpage from internet or from web server is called web browser.

18. Write an example of browser.

Google Chrome, Mozilla Firefox, Opera

19. Define e-learning.

e-Learning is the process of learning and teaching by using digital technologies and resources.

20. What is data transmission mode?

The way of transferring data between sender and receiver is called data transmission Mode. Data Transmission mode defines how the data travels from sender to receiver.

21. What is digital citizenship?

"Digital Citizenship" refers to the norms of appropriate and responsible behavior with regard to technology use.

22. What is Digital Citizen?

A "digital citizen" is a person who uses technology and the internet in a responsible and ethical manner.

23. What is cloud computing?

Cloud Computing is a type of Internet-based computing which provides online resources.

24. Write the name of any two search engines.

Google.com and Bing.com

25. What is social media?

Social media are interactive computer-mediated technologies that facilitate the creation or sharing of information, ideas, career interests and other forms of expression via virtual communities and networks.

26. Define bandwidth.

Bandwidth is the amount of data that can transmit through a communication channel during a specified period of time. Bann width is measured in bits per second (bps).

27. What is cyber bullying?

Cyber bullying refers to the use of technology, particularly the internet and social media, to harass, threaten, or humiliate someone.

28. What is Data Communication?

Data Communication is the exchange of digital data (text, images, videos, audios etc) between a source and receiver by transmission media.

29. What is Digital Signal?

Digital signals are signals having discrete variation of information which is represented by binary numbers.

30. What is Analog Signal?

Analog signals are signals having continuous variation of information such as current or voltage.

31. What is Modem ?

Modem stands for modulator and demodulator, which is used to convert analog signals to digital and vice versa.

32. What is Bit ?

Bit stands for Binary Digit, which is the smallest data measuring unit in communication system

33. What is Computer Network ?

Computer network is a set of computers connected together for the purpose of sharing resource, transferring data and information.

34. What is Network Topologies ?

Network topology is the arrangement of devices and connections in a computer network.

35. Define Bus Topology ?

Bus topology is a type of network layout in which all devices are connected to a single cable or backbone, called the bus.

36. What is Star Topologies?

Star topology is a type of network configuration in which each device is connected to a central hub, switch, or router.

37. What is Ring Topologies?

Ring topology is a network configuration where devices are connected in a circular manner, where each device is connected to two neighboring devices.

38. Which protocol is used by WWW to establish client and server interactions?

Hypertext Transfer Protocol (HTTP)

39. What is Network architecture?

The design or structure of computer network is simply called network Architecture.

40. What is Cyber Ethics ?

Computer ethics is a set of moral principles or code of conducts that regulate the use of internet without making harm to other users.

41. What is Digital Footprint?

A digital footprint is the record or data of a person's online activity and information they leave behind while using the internet and technology.

42. What is Cyber Law?

A law which describes the legal issues related to information communication technology or cyberspace is known as cyber law.

43. What is Computer Security?

Computer security means protecting our computer and its content from accidental or intentional damage, theft or misuse and action to prevent such incidents.

44. What is Hardware Security?

The protection of all computer hardware peripheral or components from accidental or intentional damage, corrupt, lost or theft is known as hardware security.

45. What is Software Security?

The protection of all computer software or Information/Data from unauthorized access, corruption is known as software security.

46. What is Phishing ?

Phishing is an activity to steal the personal details such as username, password, banking details by luring one towards the fake website.

47. What is Malware?

Any software intentionally designed to harm or exploit a computer system which can steal sensitive information, manipulate data, or cause damage to systems. This includes viruses, trojans, worms, spyware, adware etc.

48. When was cyber law established in Nepal

2061BS (2004) (Electronic Transaction and Digital Signature Act 2061)

49. What is Password?

Password is popular authentication system where a secret word that gives an user access to a particular file, folder, program or computer system.

50. What is Biometric?

Biometric is authentication system where physical or behavioral human characteristics is used to digitally identify a person that gives an access to a particular file, folder, program or computer system.

51. What is Encryption?

Encryption is the technology to encode file or message that is being stored or transferred online in intelligible (बुझ्न सकिने) content which cannot be used by an unauthorized person.

52. What is Decryption ?

The conversion of encrypted data into its original form is decryption. It is generally a reverse process of encryption

53. What is Anti Virus?

Antivirus software also known as anti-malware is a type of program designed to detect and remove viruses from computer system.

54. What is ecommerce?

E-Commerce basically refers to electronic transactions such as buying, selling and exchanging of goods, services and information over computer communication network such as the Internet.

55. What is M Commerce?

M-Commerce refers to the process of buying and selling of goods and services through smart phones, tablets or personal digital assistants (PDAs).

56. What is E governance?

E-Governance is a set of services provided by the government to public via electronic media especially using Internet.

57. What is IoT?

IoT is a network of different kinds of devices that can sense or read the values of their surrounding environments which are connected with servers so that they can communicate with each other.

58. List any two network connectivity devices.

Router and Switch

59. Which software is used to remove virus from computer system?

Antivirus

60. Name any two modes of electronic payment.

QR Pay, Digital Wallet, Mobile Banking, ATM etc

61. What is Mobile Computing?

It refers to a variety of devices that allow people to access data and information from wherever they are using Mobile devices like smart phones, tablets, wearable devices that have computing power

DBMS (2X1=2)

1. **Which data type is used to store alphanumeric characters or special symbol in Ms-Access?**
Text data type is used to store alphanumeric character or special symbol in MS Access.
2. **Which view is used to modify a table in Ms-Access?**
Design View is used to modify a table in MS-Access.
3. **Write any two object of MS Access ?**
Table, Form, (Reports, Query, Module)
4. **What object is used to print records in Ms-Access?**
Report
5. **Which data type is used to store data of birth in MS-Access?**
Date and Time
6. **Name the object that is used to store records in MS-Access?**
Table is the object that is used to store records in MS-Access.
7. **Which data type is used to store serial number in MS-Access?**
AutoNumber is used to store serial number in MS-Access.
8. **Which data type is used to store the photo in MS-Access?**
OLE Object is used to store the photo in MS-Access.
9. **List any two field properties of MS-Access.**
The two field properties of MS-Access are field size and format.
10. **What is field size of Yes/No Field?**
1 bit
11. **Which is the logical data type of MS-Access?**
Yes/No
12. **Which data type is used to store email address of an employee in MS-Access?**
Hyperlink
13. **Which objects of MS-Access are used to enter the data?**
Form
14. **What is the purpose of table?**
Table is the object that is used to store records in MS-Access
15. **Which data type of MS-Access is used to store graphics, picture and sound?**
OLE Object
16. **Which data type is used is store salary of an employee in MS-Access?**
Currency
17. **What is an extension of MS-Access database?**
.acldb
18. **What is the storage size of memo and text data type in MS-Access?**
Memo : 65,536, Text : 255 Characters
19. **What is the storage size of Data and Time in MS-Access?**
8 bytes.
20. **What is the caption in the table structure of MS Access ?**
The caption in Microsoft Access is a descriptive label for a field in a table.
21. **Define table.**
A table is an arrangement of information or data, typically in rows and columns, or possibly in a more complex structure.
22. **What is primary key?**

A primary key is a unique identifier for each record in a database table, used to enforce data integrity.

23. What is Relationship?

A relationship is a connection between two or more tables in a database that defines the way data is related.

24. Write any two field properties of MS-Access.

The two field properties of MS-Access are Field Size and Format.

QBASIC (1X1=1)

1. What is Modular Programming?

Modular programming is a software design technique that involves dividing a program into independent, reusable sub-program that each perform a specific task.

2. What is user defined function?

A user-defined function is a custom function written by the programmer or user to perform specific tasks.

3. What is parameter?

A parameter is a value or variable that is passed to a function or procedure, used to customize its behavior and determine the output of the function or procedure.

4. What is module?

A module is a reusable unit of code that performs a specific task and can accept parameters and return values to improve code organization and maintainability.

5. What is formal parameter?

Formal parameters are variables that are defined within a module as placeholders for values that will be passed to the module when it is called.

6. What is actual parameter?

Actual parameters are values or variables that are passed to a module when it is called.

7. Define local variable.

Local variables are variables that are declared and used within a specific scope, such as a function, procedure, or block of code.

8. Define global variable.

Global variables are variables that are declared outside of any specific function or procedure and are accessible from any part of the program.

9. Define sub-procedure?

A sub procedure (also known as a subroutine or function) in programming is a self-contained block of code that performs a specific task and can be called from other parts of a program.

10. Which statement is used to call FUNCTION module in QBASIC?

<variables> =<function_name> (actual_parametes)

Eg : x= sum(5,10)

11. Which statement is used to call sub procedure?

"CALL" statement is used to call a sub procedure.

CALL subprocedure_name (actual_parameters)

