

Note: Try to study all network topologies and their diagram.

SEE Exam 2081

Group A

1. Answer the following questions in one sentence: [6 x 1 = 6]

a. What is Telecommunication?

Telecommunication is the transmission of information over long distances using electronic media.

b. Give an example of simplex mode.

Radio broadcasting is an example of simplex mode.

c. Write syntax of KILL statement.

KILL "drive/path/filename"

d. Write any two keywords used in C language.

int, return

2. Write the full forms of the following: [2 x 1 = 2]

- i) UPS = Uninterruptible Power Supply
- ii) VR = Virtual Reality

3. Write appropriate technical terms for the following: [2 x 1 = 2]

- a. The websites that search documents for specified keywords in WWW.

Search Engines

b. The recording of interaction with the digital world.

Digital Footprint

Group B

4. Short Answer Questions [9 x 2 = 18]

I. Write any two differences between guided and unguided media.

Guided Media Unguided Media

Uses physical cables Uses wireless signals

More secure Less secure

II. Define Cyber law List any one-one do's and don'ts of cyber ethics.

Cyber law:

→ Cyber law is the law governing activities related to computers, networks, and the internet.

Do: Use strong passwords.

Don't: Hack or access others' data without permission.

III. Define Antivirus software with two examples.

Antivirus software is a program that detects, prevents, and removes computer viruses.

Examples: Avast, Norton

IV. Why is ecommerce more popular than traditional commerce nowadays? Give any two reasons.

E-commerce is more popular because it saves time and provides 24/7 shopping convenience.

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Group A

2. Answer the following questions in one sentence:

[$6 \times 1 = 6$]

e. Give the names of any two unguided transmission media.

→ Radio waves and microwaves.

f. List different types of procedures in QBASIC.

→ SUB and FUNCTION procedures.

g. Which format specifier do you use in C language for an 'int' data type?

→ %d

2. Write the full forms of the following:

[$2 \times 1 = 2$]

i) NIC → Network Interface Card

ii) OTP → One Time Password

3. Write appropriate technical terms for the following:

[$2 \times 1 = 2$]

c. Digital trails created while using internet.

→ Digital footprint

d. Data transmission in only one direction.

→ Simplex mode

Group B

5. Short Answer Questions

[$9 \times 2 = 18$]

V. Define Bus topology. Write any two advantages of Bus topology.

Bus topology:

→ Bus topology is a network topology in which all computers are connected to a single main cable called a bus.

Advantages:

Easy to install

Requires less cable

VI. What is Cyber ethics? Write any two commandments for using a computer.

Cyber ethics:

→ Cyber ethics are moral guidelines for using computers and the internet responsibly.

Two commandments:

Do not use a computer to harm others

Do not access others' files without permission

VII. What is social media? Write one reason why it is popular nowadays.

Social media:

→ Social media are online platforms used to communicate, share information, and connect with people.

Reason:

→ It allows instant communication with people worldwide.

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Group A

2. Answer the following questions in one sentence:

[$6 \times 1 = 6$]

e. What is unguided media?

→ Unguided media is a transmission medium that sends data wirelessly through air or space.

f. What is business done through the mobile?

→ Business done through mobile devices is called **m-commerce** (mobile commerce).

g. What is modular programming?

→ Modular programming is a programming approach where a program is divided into smaller independent modules.

h. Write any two features of C-language.

→ Structured language and portable.

2. Write the full forms of the following:

[$2 \times 1 = 2$]

i) URL → Uniform Resource Locator

ii) STP → Shielded Twisted Pair

3. Write appropriate technical terms for the following:

[$2 \times 1 = 2$]

c. A secret group of characters used to protect computer system from unauthorized users.

→ Password

d. An artificial environment created by a computer system that appears real.

→ Virtual Reality

Group B

5. Short Answer Questions

[$9 \times 2 = 18$]

V. Define Network Topology. Sketch a drawing of star topology.

Network topology:

→ Network topology is the physical or logical arrangement of computers and devices in a network.

Star Topology (Sketch):

Make from Book in copy

V. Write any four commandments of computer ethics.

The four commandments of computer ethics are given as:

Do not use a computer to harm others

Do not access others' files without permission

Do not steal software or data

Use computers responsibly

VII. What are computer security threats? Mention any two measures to protect from security threats.

Computer security threats:

→ Computer security threats are harmful activities that damage or steal data from computer systems.

Protection measures:

Use antivirus software

Use strong passwords

VIII. Why is e-commerce popular nowadays? List any two e-commerce sites in Nepal.

Reason:

→ E-commerce is popular because it saves time and allows online shopping from anywhere.

Examples in Nepal:

→ Daraz, SastoDeal

Group A

2. Answer the following questions in one sentence:

[6 × 1 = 6]

e. Write the different architecture of computer network.

→ Client-server architecture and peer-to-peer architecture.

f. What is cyber bullying?

→ Cyber bullying is the use of digital media to harass, threaten, or harm others.

g. Write any two services provided by the internet.

→ E-mail and World Wide Web (WWW).

2. Write the full forms of the following:

[2 × 1 = 2]

i) POP → Post Office Protocol

ii) ISP → Internet Service Provider

3. Write appropriate technical terms for the following:

[2 × 1 = 2]

c. Law that governs the legal issues of cyber space.

→ Cyber law

d. The website that search documents for specified keyword in internet.

→ Search engine

Group B

5. Short Answer Questions

[9 × 2 = 18]

VI. Differentiate between LAN and MAN.

LAN

Covers small area (building/campus)

Faster and cheaper

MAN

Covers a city

Slower and costlier

VII. What is network topology? Write about star topology with suitable diagram.

Network topology:

→ Network topology is the physical or logical arrangement of devices in a network.

Star topology:

→ In star topology, all devices are connected to a central hub or switch.

Diagram:

From BOOK

VIII. Write any four opportunities and threats of social media.

Opportunities:

Easy communication

Online learning

Business promotion

Global connectivity

Threats:

Cyber bullying

Privacy loss

Fake information

Addiction

IX. What is Online Payment? Write different forms of e-payment in Nepal.

Online payment:

► Online payment is the transfer of money electronically through the internet.

Forms of e-payment in Nepal:

► eSewa, Khalti, IME Pay, Mobile banking