

READING TIME : 15 MINUTES
WRITING TIME : 2 HOURS

FULL MARKS : 80

SECTION - A (Attempt all Questions) (30 marks)

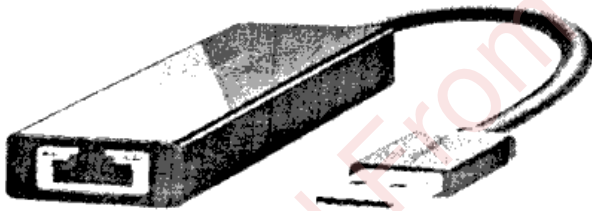
Q1. Choose the correct option :(Do not Copy) (1X6=6)

- i. A program that deletes all the data from a computer is known as -
a. virus b. malware c. sweeper. d. adware
- ii. Which part of the computer, when removed, would make you not able to use the computer?
a. Keyboard. b. Power Supply c. Fan d. RAM
- iii. IPR expands to -
a. Individual Property Rights
b. Individual Performance Rights
c. Intellectual Property Rights
d. Intellectual Performance Rights

iv. **Assertion(A)**: In order to keep our computer safe from unauthorized sites, a firewall is the best option.

Reason(R): A firewall is a System designed to prevent unauthorized access from/to a computer.

- a. Both A and R are true and R is the correct explanation of Assertion A.
 - b. Both A and R are true and R is not the correct explanation of Assertion A.
 - c. A is true but R is false.
 - d. A is false but R is true.
- v. Identify the picture given below :



- a. RJ45 network and USB port b. Serial port. c. Game port. d. Audio port
- vi. **Assertion(A)**: Whenever users boot their computer, boot sector virus also gets loaded in memory and start infecting other programs.

Reason(R): A boot sector virus infects the .EXE or compressed files

- a. Both A and R are true and R is the correct explanation of Assertion A.
- b. Both A and R are true and R is not the correct explanation of Assertion A.
- c. A is false but R is true.
- d. A is true but R is false.

Q2. Fill in the blanks : (Do not Copy)

- i. Records and traces of online activities of a user are called _____.
- ii. A _____ is a program that appears harmless but actually performs malicious functions such as deleting or damaging files.
- iii. _____ are the connecting points where peripheral devices connect with the motherboard.
- iv. The base of the hexadecimal number system is _____.
- v. The first computer virus had a name as _____.
- vi. _____ refers to the sending of bulk mail by an identified or unidentified source.

Q3. State True or False :(Do not Copy)

(1X6=6)

- i. Decimal number system is also referred to as Denary Number System.
- ii. Malware is a general term used to refer to viruses only.
- iii. You should always logout from the sites you have logged in after finishing your work.
- iv. Trojan Horse virus gets its name from an ancient Greek story, in which Greek troops entered the city of Troy in disguise of wooden horse.
- v. A computer can not understand digital forms.
- vi. A pen drive connects to a computer through a parallel port.

Q4. Give one word answer :(Do not Copy)

(1X6=6)

- i. It refers to the count of unique symbols used to represent numbers.
- ii. This type of virus once into the memory, keeps affecting all running executable files.
- iii. Gaining entry to a computer system by exploiting security loopholes.
- iv. Unethical practice of taking someone else's work and presenting it as one's own work.
- v. This is a software used to spy on someone either for legal or illegal purposes.
- vi. Sarah needs to submit a signed application form online. She first needs to make a digital copy of the signed form. Which device should she use?

Q5. Match the following :(Copy)

(1X6=6)

Column A	Column B
i. Octal Number System	a. Tricking people through authentic looking email or website.
ii. Antivirus Software	b. converts our voice into digital form.
iii. Cracker	c. used for connecting a computer to a network.
iv. Phishing	d. base 8.
v. Microphone	e. Kaspersky
vi. Modem	f. gain entry to a computer with a negative intention of causing harm or stealing data.

SECTION - B (50 MARKS)

Q6. Answer any six questions from the following : (2X6=12)

- i. Why is motherboard so important ?
- ii. Write any two symptoms of Computer virus attacks and harm caused.
- iii. What do you mean by computing ethics?
- iv. Mention any two actions you should take care of, in order to keep a fine digital footprint
- v. Differentiate between computer viruses and worms.
- vi. Define Cyber Bullying.
- vii. A researcher needs to analyze a large dataset. Which storage device would be most suitable for storing the massive amount of data needed for the analysis and why?

Q7. Write short notes :(Attempt any six) (3X6=18)

- i. SMPS ✓
- ii. Ways to prevent a computer virus ✓
- iii. Binary Number System ✓
- iv. Program File Viruses ✓
- v. Individuals Right to Privacy ✓
- vi. Software Piracy ✓
- vii. Ways to prevent Unethical Hacking ✓

Q8. Answer any five questions from the following : (4X5=20)

- i. Explain the function of a Modem. ✓
- ii. Convert the binary number 11011001 into decimal number. ✓
- iii. What does an anti-virus software do? Give examples of anti-virus software. ✓
- iv. What safety measures would you take for safe Internet browsing? ✓
- v. Convert the decimal number 68 to binary number. ✓
- vi. State any four advantages of Internet. ✓