

GRADE: 7

SUBJECT: COMPUTER SCIENCE

DATE: [Insert Date]

DURATION: 2 hr

MAX MARKS: 80

SECTION A

Q1. CHOOSE THE CORRECT ANSWER: (10x1=10)

1. What is a computer virus?
 - a) A hardware device
 - b) A type of software that harms the computer
 - c) A programming language
 - d) A social media platform
2. Which of the following is an example of a **Macro Virus**?
 - a) Melissa
 - b) Michelangelo
 - c) Creeper
 - d) Code Red
3. The **first computer virus** detected was:
 - a) Ghostball
 - b) Creeper
 - c) Cascade
 - d) Brain
4. **Trojan Horse** is a:
 - a) Malware disguised as a useful program
 - b) Type of antivirus software
 - c) Hardware component
 - d) Web browser
5. A **worm** spreads mainly through:
 - a) Email attachments
 - b) Hard drives
 - c) Keyboards
 - d) Motherboards

6. Which virus infects both **boot sector and program files**?
- a) Macro Virus
 - b) Multipartite Virus
 - c) Boot Sector Virus
 - d) Worm
7. Which of the following is **not** a symptom of a virus attack?
- a) Slow computer performance
 - b) Frequent system crashes
 - c) Faster internet speed
 - d) Unauthorized pop-ups
8. The **full form of VIRUS** is:
- a) Virtual Integrated Resource Under Surveillance
 - b) Vital Information Resources Under Seize
 - c) Very Intelligent Resource Using Software
 - d) Virtual Internet Routing Universal System
9. A **hacker** is a person who:
- a) Fixes computers
 - b) Gains unauthorized access to systems
 - c) Writes blogs
 - d) Works in a bank
10. A **ransomware attack** typically:
- a) Deletes files automatically
 - b) Blocks access and demands money
 - c) Repairs corrupt files
 - d) Speeds up the system

Q2. USE THE GIVEN CLUES AND ANSWER THE FOLLOWING: (4x1=4)

- 1. A type of virus that spreads through Microsoft Word files. (Hint: M____ Virus)
- 2. A program that captures keystrokes and sends them to a hacker. (Hint: K____)
- 3. A virus that encrypts files and demands a payment for access. (Hint: R____)
- 4. A program that infects computers by hiding within seemingly useful applications. (Hint: T____ H____)

SECTION B

Q3. ANSWER THE FOLLOWING: (Any Ten) (10x2=20)

1. Define a computer virus.
2. What is a **Boot Sector Virus**?
3. How does a **Worm** differ from a **Virus**?
4. Mention two examples of **Trojan Horse viruses**.
5. What are the symptoms of a **computer virus attack**?
6. Explain how **spyware** affects a computer.
7. Why are **email attachments** considered dangerous?
8. State **two methods** to prevent virus attacks.
9. What is the **function of an antivirus software**?
10. Define **ransomware** and explain how it works.
11. How do viruses spread through **pen drives**?
12. What is the role of a **hacker** in cybersecurity?

Q4. GIVE TWO DIFFERENCES BETWEEN: (Any Four) (4x2=8)

- a) Virus and Worm
- b) Trojan Horse and Spyware
- c) Antivirus and Firewall
- d) Boot Sector Virus and Multipartite Virus
- e) Adware and Ransomware

SECTION C

Q5. ANSWER IN DETAIL: (Any Four) (4x5=20)

1. Explain the different **types of computer viruses** with examples.
2. Describe how **malware enters a computer system** and how it spreads.
3. How do **antivirus programs** detect and remove viruses?
4. What are the **preventive measures** to avoid virus infections?
5. Discuss the **impact of ransomware** on users and organizations.

End of the Question Paper