M. Time: 2 Hours   **M. Marks: 80**

Name: _____   **Roll No.: _____**

I. Choose the correct answer and write it.   **[10]**

(1) ……………………. is the processes of transforming data into an unreadable.

   (a) Encoding   (c) Decryption
   (b) Encryption   (d) Cookie

(2) ………. programs are used to check the user's keystrokes and get information like password.

   (a) Key logger   (c) Both a and b
   (b) Defamation   (d) Extortion

(3) Email virus may enter the computer system through the ……….. .

   (a) Attachments   (c) mouse
   (b) Addresses   (d) speaker

(4) It is a type of malicious software that gains entry into a system and monitors the user without his knowledge.

   (a) Spyware   (c) Trojan Horse
   (b) Sweeper   (d) Worms

(5) Which virus is named after the wooden horse used by the Greek Army to conquer the city of Troy?

   (a) Dark Avenger   (c) Trojan Horse
   (b) Stoned Virus   (d) Worms

(6) A computer understands only …………………………………… language.

   (a) English   (c) French
   (b) Binary   (d) Hindi

(7) Base value of binary number system is:

   (a) 10   (c) 8
   (b) 2   (d) 16

(8) It is the concept used for any type of commercial or business by using the internet.

(a) E-commerce   (c) Forum
(b) E-banking   (d) Media

(9) Which of the following is a type of Scanner?

(a) Drum   (c) Microphone
(b) Light Pen   (d) Blu-ray

(10) Which of the following is an output device?

(a) Mouse   (c) Keyboard
(b) Projector   (d) Scanner

II. Fill in the blanks with the correct answer.   **[10]**
(1) An illegal intrusion into a computer system or network is known as ………….
(2) ……….. is a set of procedures, moral principles, and ethical practices that regulates the use of a computer.
(3) ……… is the usage or imitation of the language and thoughts of another person projected as one's own original work.
(4) Stoned virus is a type of …….. virus.
(5) ……… is a malicious software that enters a computer and damages it without that user's knowledge.
(6) A ……. Virus is a hybrid of a boot sector and program file virus.
(7) In binary subtraction, 1 – 0 = …………..
(8) The base of a …….. number system is 8.
(9) A …….. is used to disperse the heat generated by the CPU.
(10) The picture on a monitor is made up of thousands of small colored dots called ………….

III. Write the following statements true or false.   **[10]**
(1) A digital footprint is also known as digital dossier.
(2) You can identify the unsecured website by looking at the green lock sign or https on the address bar.
(3) Virus may enter through the email attachments.
(4) You should always equip your computer with the antivirus programs.
(5) The decimal number system consists of 9 digits, i.e., 1 to 9.
(6) You cannot perform arithmetical operations on binary number.
(7) SMPS uses a switching regulator to control and stabiles the output voltage.
(8) Flash drive is also known as pen drive.
(9) Thermal printer is an example of non-Impact printers.
(10) You should not post any silly or abusive comment online.

IV. One word answer type question.   **[5]**
(1) Write the first PC virus name.
(2) Write any one antivirus name.
(3) Write the base value of Hexadecimal number system
(4) Give any example of impact printer
(5) Write the name of storage device.

V. Define the following terms.   **[5]**
(1) USB

(2) Worms

(3) Spyware

(4) Spamming

(5) Phishing

VI. Application based questions. [6]

(1) Raj is confused in deciding whether a mail that he has received is genuine one or spam. Can you help him in identifying the spam by specifying any indicative measure?

(2) Riya's computer has got infected with a virus, resulting in its frequent hanging. Which software will you suggest her to install in order to solve this problem?

(3) Ram wants to connect a speaker to the computer. which port he will use to connect the speaker?

(4) If Sachin wants to scan a document. Which device he use to do?

(5) Sonam has created her own eBook she prepared all things by her own idea and mechanism then how She can secure her invention in the commercial market?

(6) Nitin is working in Factory he has prepared some gate pass and he wants to print it. Which device he will use to print the document?

VII. Differentiate the following terms. [4]

1. Hardware and Software.

2. Hackers and Crackers.

3. Printer and Scanner.

4. Input device and output device.

VIII. Short answer type questions. [10]

1. Explain cyberbullying.

2. Explain software piracy.

3. Explain Plagiarism.

4. What is COBOL?

5. What is motherboard?

IX. Long answers type questions. [20]

1. What are digital footprints? List the step to avoid digital footprints.

2. Write any four steps required to protect your computer from a virus attack.

3. Explain types of IPR.

4. What is a modem? Explain its types in brief.

5. Write down any four preventatives against plagiarism.

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Note:

This specimen paper is provided as an example of the format and type of questions that may appear on the half yearly exam (2024-25). It is intended to help students familiarize themselves with the structure and expectations of the exam