



Name :

P.T.O.



- ii) The resolution of a monitor is governed by the
- size of the screen
 - cost of the monitor
 - number of pixels on the screen
 - contrast of pixels on the screen
- iii) A computer virus that actively attacks an anti-virus program of programs in an effort to prevent detection is
- Worm
 - Retrovirus
 - Trojan virus
 - Ghost virus
- iv) Which of the following assignments are valid ?
- float x = 123.4
 - long m = 023
 - int n = (int) false
 - double y = 0X756

(2×1=2)

SECTION – B

(Short answer questions. **Eight** questions; answer **any six**. **Each** question carries a weightage 1)

- What are BRNET ?
- Discuss cyber ethics.
- Explain the difference between hardware and software with their uses.
- What are computer viruses ?
- What are computer protocols ?
- Give the syntax of a if else statement.
- What is the significance of antivirus software ?
- Why is character constants treated as integer constants as well ?

(6×1=6)

SECTION – C

(Short essay/Problem or both. **Twelve** questions; answer **any nine**. **Each** question carries a Weightage of 2)

- What is software piracy and how it can be avoided ?
- Explain the features of educational software.
- Write a note on cyber security.
- Write a program to find the velocity of a simple harmonic oscillator.
- Differentiate between call by value and call by reference.



- What is the difference between a structure and union ?
- Draw the logic of program flow in a switch block.
- What are the functions of the processor inside a cell phone ?
- Write a program to find the current when resistance R_1 and R_2 are connected either in series or in parallel .
- Write a program to print the following output using for loops.

3

44

555

6666

- Write a program to read matrix of size $m \times n$ from the keyboard and display the same on the screen using functions.
- Describe the antivirus software program.
- What do you mean by a dynamic initialization of a variable ? Give two examples.

(9×2=18)

SECTION – D

(Long essay questions. **Two** questions; Answer **any one**. **Each** question carries a Weightage of 4)

- Discuss and compare the features of Wi-Fi, ISDN and DSL.
- What are control statements in C programming ?

(1×4=4)