



Standard 11

COMPUTER SCIENCE

Time: 3.00 Hours

Marks: 70

PART - I

I. Answer all the questions:

15x1=15

- 1) Which of the following is the main memory?
 - a) ROM
 - b) RAM
 - c) Flash drive
 - d) Hard disk
- 2) How many bytes does 1 Kilo byte contain?
 - a) 1000
 - b) 8
 - c) 4
 - d) 1024
- 3) For 1101 the equivalent Hexa decimal is
 - a) F
 - b) E
 - c) D
 - d) B
- 4) NAND is called as Gate
 - a) Fundamental Gate
 - b) Derived Gate
 - c) Logical Gate
 - d) Universal Gate
- 5) Which is the fastest memory?
 - a) Hard disk
 - b) Main memory
 - c) Cache memory
 - d) Blue - Ray Disk
- 6) File Management manages
 - a) Files
 - b) Folders
 - c) Directory system
 - d) All the above
- 7) Under which of the following OS, the option Shift + Delete permanently deletes a files or folder
 - a) Windows-7
 - b) MS-DOS
 - c) Linux
 - d) Android OS
- 8) Which of the following activities is not algorithmic in nature?
 - a) Multiply two numbers
 - b) Draw a Kolam
 - c) Walk in the park
 - d) Swaping of two numbers
- 9) Suppose $u, v = 10, 5$ before the assignment, What are the values of u and v after the sequence of assignments, 1) $u := v$ 2) $v := u$
 - a) $u, v = 5, 5$
 - b) $u, v = 5, 10$
 - c) $u, v = 10, 5$
 - d) $u, v = 10, 10$
- 10) If $m \times a + n \times b$ is an invariant for the assignment $a, b := a + 8, b + 7$, the values of m and n are
 - a) $m = 8, n = 7$
 - b) $m = 7, n = -8$
 - c) $m = 7, n = 8$
 - d) $m = 8, n = -7$
- 11) What was the original name given to C++?
 - a) CPP
 - b) Advance C
 - c) C with classes
 - d) Class with C
- 12) Which of the following data types is not a fundamental type?
 - a) signed
 - b) int
 - c) float
 - d) char
- 13) This can be used as alternate to endl command
 - a) $\backslash t$
 - b) $\backslash b$
 - c) $\backslash o$
 - d) $\backslash n$
- 14) How many times the following loop will execute: for (int i=0; i<10; i++)
 - a) 0
 - b) 10
 - c) 9
 - d) 11
- 15) The ASCII value for the alphabet 'H' is
 - a) 69
 - b) 70
 - c) 71
 - d) 72

PART - II**II. Answer any 6 questions: Q.No. 23 is compulsory.****6x2=12**

- 16) What is a computer?
- 17) List the encoding systems that represents characters in memory
- 18) Draw the truth table for XOR
- 19) What is Multi-processing?
- 20) How will you rename a file?
- 21) What is the difference between algorithm and a program?
- 22) What is an Invariant?
- 23) What is meant by a token? Name the token available in C++
- 24) What is the use of setw[] format manipulator?

PART - III**II. Answer any 6 questions: Q.No. 31 is compulsory.****6x3=18**

- 25) What is an input device? Give two examples
- 26) What is radix of a number system? Give example.
- 27) Convert the decimal number (88) to Binary, then convert that binary number to Octal.
- 28) Differentiate computer organization from computer architecture
- 29) List out the key features of Operating system.
- 30) Write a note on the elements of a window
- 31) How is state represented in algorithm?
- 32) What is the use of a header file?
- 33) Write the syntax and purpose of switch statement

PART - IV**IV. Answer all the questions.****5x5=25**

- 34) Explain the basic components of computer with a neat diagram

(OR)

a) Add : 1 1 1 1 0 1 1 1 + 1 0 0 0 1 1

b) Subtract : 1 0 0 0 0 0 + 1 0 1 0 1

- 35) Explain the fundamental gates with expression and truth table

(OR)

Explain the types of ROM

- 36) Explain the process management algorithms in operating system

(OR)

Explain the versions of Windows Operating system

- 37) Write the specification of an algorithm hypotenuse whose inputs are the lengths of the two shorter sides of a right angled triangle, and the output is the length of the third side.

(OR)

Write about Binary operator used in C++

- 38) Explain control statement with suitable example

(OR)

Write a C++ program to find the LCM and GCD of two numbers.
