

V11CS

Virudhunagar District
Common Quarterly Examination - 2023



Standard 11
COMPUTER SCIENCE

Time: 3.00 Hrs.

Marks: 70

PART - I**I. Answer all the questions:****15×1=15**

- 1) Expand: POST
 - a) Post on Self Test
 - b) Power on Software Test
 - c) Power on Self Test
 - d) Power on Self Text
- 2) 2^{50} is referred to as
 - a) Kilo
 - b) Tera
 - c) Peta
 - d) Zetta
- 3) Which amongst this is not a decimal number?
 - a) 777
 - b) 111
 - c) 888
 - d) None of the above
- 4) The Octal Equivalent for the decimal $(15)_{10}$ is _____
 - a) 14
 - b) 15
 - c) 16
 - d) 17
- 5) NAND is called as
 - a) Fundamental gate
 - b) Universal gate
 - c) Logical gate
 - d) Derived gate
- 6) $A+1 = ?$
 - a) A
 - b) 0
 - c) 1
 - d) \bar{A}
- 7) What is the smallest size of data represented in a CD?
 - a) Blocks
 - b) Sectors
 - c) Pits
 - d) Tracks
- 8) Which of the following is not the part of the micro processor unit?
 - a) ALU
 - b) Control Unit
 - c) Register
 - d) Cache memory
- 9) Which of the following OS is a commercially licensed operating system?
 - a) Windows
 - b) UBUNTU
 - c) FEDORA
 - d) REDHAT
- 10) If $0 < i$ before the assignment $i=i-1$ after the assignment, we can conclude that
 - a) $0 < i$
 - b) $0 \leq i$
 - c) $i=0$
 - d) $0 \geq i$
- 11) How many times the loop is iterated?


```

i:=1
While i#7
  i:=i+2
      
```

 - a) 6
 - b) 5
 - c) 4
 - d) 3
- 12) Who developed C++?
 - a) Charles Babbage
 - b) Bjarne Stroustrup
 - c) Bill gates
 - d) Sundar Pichai
- 13) Which of the following operator is extraction operator in C++?
 - a) $>>$
 - b) $<<$
 - c) $<>$
 - d) $\wedge\wedge$
- 14) Which operator is used to access reference of a variable?
 - a) \$
 - b) #
 - c) &
 - d) !
- 15) What is the alternate name of null statement?
 - a) No statement
 - b) Empty statement
 - c) Void statement
 - d) Zero statement

PART - II**II. Answer ANY SIX questions. Question.no. 23 is compulsory:****6×2=12**

- 16) Distinguish between data and information.

Kindly send me your study materials to padasalai.net@gmail.com

V11CS

2

- 17) Write the 1's complement procedure.
- 18) Write the Associative laws.
- 19) What is Multi user operating system?
- 20) What are called standard icons?
- 21) Define : Loop invariant
- 22) What is a Keyword? Give example.
- 23) What is the output of the following code:

```
for (i=10; i>=2; i=i/2)
    cout<<i<<"\t";
```
- 24) What is a reference variable? What is its use?

PART - III

III. Answer ANY SIX questions. Question no. 32 is compulsory: $6 \times 3 = 18$

- 25) What are the characteristics of a Computer?
- 26) Convert $(148)_{10}$ into binary and then convert that binary number to Hexa decimal number.
- 27) Add: $1101010_2 + 101101_2$
 Subtract: $1101011_2 - 111010_2$
- 28) Classify the Micro processor based on the size of the data.
- 29) What are the functions of windows operating system?
- 30) What is the format of the 'specification' of an algorithm?
- 31) What is the use of header file?
- 32) Write a C++ program to print multiplication table of a given number.
- 33) What are the rules for naming an identifier in C++?

PART - IV

 $5 \times 5 = 25$

IV. Answer all the questions:

- 34) Explain the following:
 (a) Keyboard (b) Multimedia projector (c) Booting

(OR)

Find 1's and 2's complement for the following decimal numbers:

- (a) -98 (b) -135

- 35) Explain the derived gates with expression and truth table.

(OR)

Explain the characteristics of micro processor.

- 36) Explain the concept of Distributed Operating System along with its advantages.

(OR)

Explain the versions of Windows Operating System.

- 37) Explain the building blocks of an algorithm.

(OR)

Write about Binary operators used in C++.

- 38) What is an entry control loop? Explain any one of the entry controlled loop with suitable example.

(OR)

Write a C++ program to find sum of the series: $S = 1 + X + X^2 + X^3 + \dots + X^n$