V11CS

Virudhunagar District
Common Half Yearly Examination - December 2023

Standard 11

Time: 3.00 Hrs.

COMPUTER SCIENCE

Marks: 70

PART - I

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

1) Which one of the following is the main memory?
   a) ROM   b) RAM   c) Flash drive   d) Hard disk

2) What is the 2's complement of 00100110
   a) 00100110   b) 11011001   c) 11010001   d) 11011010

3) The Octal Equivalent of the decimal 19 is _____
   a) 03   b) 13   c) 23   d) 33

4) Interactive Operating System provides
   a) GUI   b) FAT   c) DOS   d) none of these

5) Who coined C++?
   a) Rick Mascitti   b) Rick Bjarne
   c) Bill Gates   d) Dennis Ritchie

6) Assume a = 5, b = 6, what will be result of (a & b)
   a) 5   b) 0   c) 1   d) 4

7) This can be used as alternate to endl command
   a) \t   b) \b   c) \n   d) \0

8) The multi way branch statement
   a) if   b) ifelse   c) switch   d) for

9) Which function is used to check whether a character is alphanumeric or not
   a) isalpha( )   b) isdigit( )   c) isalnum( )   d) (islower( )

10) Structure definition is terminated by
    a) ; (semi colon)   b) : (colon)
    c) : : (Scope operatory)   d) .(dot)

11) Which of the following is the most important advantages of inheritance?
    a) Data hiding   b) encaptulation
    c) code modificaiton   d) accessibility

12) Which of the following refers to a function having more than one distinct meaning?
    a) member overloading   b) operations overloading
    c) operator overloading   d) function overloading

13) The type of inheritance that reflects the transitive nature is
    a) single inheritance   b) multiple inheritance
    c) multi level inheritance   d) hybrid inheritance

14) Distributing unwanted e-mail to other is called
    a) scam   b) spam   c) fraud   d) spoofing

15) The tamil translation application is
    a) Tamizpori   b) Ezhil   c) Kamban   d) Azhagi

PART - II

II. Answer any 6 questions and questions no 21 is compulsory: 6×2=12

16) What is the function of memory?
17) Add: 1 1 1 1 1 0 1 + 1 0 1 1 0 1
18) What is program counter?
19) Distinguish betwen algorithm and a process.
20) Draw a flow chart for conditional statement.
21) What is an Invarient? Give example.
22) What is Traversal in an array?
23) Differentiate Classes and Objects.
24) What is Encryption?

PART - II

III. Answer any 6 questions and question no 29 is compulsory: 6×3=18

25) Convert $(147)_{10}$ into Binary number then convert that Binary number to Hexa decimal number.
26) Differentiate PROM and EPROM
27) How is 'State' represented in algorithm?
28) Tabulate the punctuator used in C++?
29) Write a C++ program to find factorial value of a given number.
30) Write the purpose of structure definition and usage?
31) List some features of Modular programming.
32) What is Phising?
33) Write a short note on Virtual Tamil Academy.

PART - IV

IV. Answer all the questions: 5×5=25

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

(OR)

a) Write the procedure to convert the given Binary to Octal number
b) Write short notes on ISCII

35) Explain the process management algorithms in Operating System.

(OR)

Explain the various methods of renaming files and folders in Windows Operating System.

36) What is an Expression in C++? Explain its types with examples.

(OR)

Explain the syntax of do... while loop in C++ with example program.

37) Explain inline function with suitable example.

(OR)

Mention the differences between Constructor and Destructor.

38) What are the rules of Operator overloading?

(OR)

Discuss the different visibility modes through Pictorial Representation.

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