

Tsi11CS

Tenkasi District
Common Quarterly Examination - 2023



26-09-2023

Standard 11
COMPUTER SCIENCE

Time Allowed: 3.00 Hours

Maximum Marks: 70

Part - I

i) Answer all the questions.

15×1=15

ii) Choose the most appropriate answer from the given four alternatives and write the option code and the corresponding answer.

- 1) Which output device is used for printing building plan?
 - a) Thermal printer
 - b) Plotter
 - c) Dotmatrix printer
 - d) Laser printer
- 2) For 1011_2 , the equivalent Hexadecimal number is?
 - a) B
 - b) C
 - c) D
 - d) E
- 3) A double layer Blu-Ray disc can store upto _____ of data.
 - a) 4.7 GB
 - b) 1 GB
 - c) 2 TB
 - d) 50 GB
- 4) Which of the following operating systems support on mobile devices?
 - a) Windows 7
 - b) Windows 8
 - c) BOSS
 - d) Android
- 5) What is shortcut key to move a file?
 - a) Ctrl+C
 - b) Ctrl+V
 - c) Ctrl+P
 - d) Ctrl+X
- 6) Sating the input property and the input-output relation a problem is known
 - a) Specification
 - b) Statement
 - c) Algorithm
 - d) Definition
- 7) _____ is a mix of programming language like constructs and plain English.
 - a) Program
 - b) Pseudo Code
 - c) Flow Chart
 - d) Composition
- 8) 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) $m=8, n=-7$
- 9) Which of the following is not a data type modifier?
 - a) signed
 - b) int
 - c) long
 - d) short
- 10) This can be used as alternate to endl command:
 - a) `\t`
 - b) `\b`
 - c) `\o`
 - d) `\n`
- 11) How many time the following loop will execute? for (int i=0, i<=10; i++)
 - a) 0
 - b) 10
 - c) 9
 - d) 11
- 12) In C++, the group of statements should be enclosed within:
 - a) { }
 - b) []
 - c) ()
 - d) <>
- 13) After assignment what values will be stored in the variables m, n ?
 - (1) $m, n := 10, 5$
 - (2) $m, n := m+3, n-2$
 - (3) $m, n := ?, ?$
 - a) 3, 13
 - b) 10, 13
 - c) 13, 3
 - d) 10, 5
- 14) The smallest individual unit in a program is called as _____.
 - a) Lexical unit
 - b) Pseudo code
 - c) Algorithm
 - d) Flowchart
- 15) Which of the following is called as compile time operators?
 - a) sizeof
 - b) pointer
 - c) virtual
 - d) this

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Part - II

Answer any six questions. Question No. 24 is compulsory:

6x2=12

- 16) Write a short note on Impact printer.
- 17) What is a program counter?
- 18) What are the functions of ALU?
- 19) Convert the given binary number $(11.01)_2$ into its decimal equivalent.
- 20) What are called standard icons?
- 21) Define - Algorithm.
- 22) What is reference variable? What is its use?
- 23) What is Jump Statements in C++? Write its types.
- 24) Write a while loop that displays numbers 2, 4, 6, 8, 20.

Part - III

Answer any six questions. Question No. 33 is compulsory:

6x3=18

- 25) Write the truth table and draw the logic symbol of XOR gate.
- 26) What is type conversion? Write a short note on implicit type conversion.
- 27) Write the syntax and purpose of switch statement.
- 28) Explain about classification of Microprocessors based on the Data width.
- 29) What are Keywords? Can Keywords be used as identifiers?
- 30) What is the use of a header file?
- 31) Draw a flowchart for 3-case analysis using alternative statements.
- 32) What is the format of the specification of an algorithm?
- 33) Write a program to sum the numbers from 1 to 10 using 'for' loop.

Part - IV

Answer all the questions:

5x5=25

- 34) a) Explain any five input devices.
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- b) Add: $1101010_2 + 101101_2$
Subtract: $1101011_2 - 111010_2$
- 35) a) Explain the characteristics of a microprocessor.
(OR)
- b) Write the procedure to create shortcut in Windows OS.
- 36) a) Explain the derived gates with expression and truth table.
(OR)
- b) What are the points to be noted while creating a user interface for an OS?
- 37) a) Explain the types of Errors in C++.
(OR)
- b) What are the arithmetic operators in C++? Differentiate unary and binary arithmetic operators. Give example for each of them.
- 38) a) What are the key differences between if...else and Switch statement?
(OR)
- b) Write a program to find the LCM of two numbers in C++.