

QUARTERLY EXAMINATION - 2023

COMPUTER SCIENCE

CLASS : 11

TIME : 3.00 hrs

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MARKS : 70

PART-I

I Answer all the question.

15 X 1 = 15

1. When a system restarts which type of booting is used
 a) Cold booting b) Touch boot c) Warm booting d) Real booting
2. For 1101₂ the equivalent Hexa decimal equivalent is
 a) D b) E c) F d) B
3. Which of the following device identifies the location when address is placed in the memory address register?
 a) Locator b) Decoder c) Encoder d) Multiplexer
4. Intractive operating system provides?
 a) Data Distribution b) Security management c) Graphics User Interface d) Real Time Processing
5. The shortcut key used to rename a file in windows?
 a) F4 b) F5 c) F6 d) F2
6. Omitting details in essential to the task and representing only the essential features of the task is known as
 a) Decomposition b) Specification c) Abstraction d) Composition
7. How many times the loop is iterated?

```

i = 0
while i # 50
i = i + 1

```

 a) 49 b) 50 c) 60 d) 0
8. A loop invariant need not be true
 a) at the end of each iteration b) at the start of the loop
 c) at the start of each iteration d) at the start of the algorithm
9. The smallest individual unit in a program is
 a) Program b) Algorithm c) Tokens d) Flow chart
10. What will be the result of following statement?

```

char ch = 'B'
cout << (int) ch;

```

 a) .b b) B c) 65 d) 66
11. Which of the following is not a data type modifier?
 a) signed b) int c) long d) short
12. Which of the following is a valid string literal?
 a) 'A' b) 'welcome' c) 1232 d) '1232'
13. Idempotence $A + A = ?$ a) 0 b) A c) 1 d) \bar{A}

14. A step -by step sequence of statements to solve a problem
 a) Program b) Algorithm c) Specification d) Abstraction.
15. Who is coined the phrase "Structured programming"
 a) Billgates b) E.W. Dijkstra c) Charless Babage d) Bjarne

PART - II**II Answer any six question number 24 is compulsory.**

6 X 2 = 12

16. What are the components of a CPU?
17. Convert $(46)_{10}$ into Binary number?
18. What is an instruction?
19. What is a multi-user operating system?
20. Differentiate Save and Save AS option?
21. Distinguish between an algorithm and a process?
22. Draw a flowchart for conditional statement.
23. What is an invariant?
24. What is meant by a token? Name the token available in C++?

PART - III**III Answer any six question number 33 is compulsory.**

6 X 3 = 18

25. What is an input devices? Give three examples?
26. Write the De.Morgan's law?
27. Differentiate PROM and EPROM?
28. Write the two ways to create a new folder.
29. What is abstraction?
30. Draw a flowchart for 3 - case analysis using alternative statements?
31. What is the use of a header file?
32. Add a) $-22_{10} + 15_{10}$ b) $20_{10} + 25_{10}$
33. List out the key features of operating system?

PART - IV**IV Answer all questions.**

5 X 5 = 25

34. Discuss the various generation of computers? (OR)
- Perform Binary addition for the following . $23_{10} + 12_{10}$.
35. Explain the characteristics of a micro processor. (OR)
- Explain the different ways of finding a file or folder?
36. Write about Binary operators used in C++? (OR)
- What are the types of Errors?
37. Explain the versions of windows operating system. (OR)
- Explain the process management algorithms in operating system.
38. Explain Data types in C++? (OR)
- Explain the Algorithm Design techniques.

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XI STANDARD QUARTERLY COMPUTER SCIENCE QUESTION ANSWER KEY 2023

PART – I		
S. NO	ANSWERS	
1.	c) Warm Booting	
2.	a) D	
3.	b) Decoder	
4.	c) Graphic User Interface	
5.	d) F2	
6.	c) Abstraction	
7.	b) 50	
8.	d) at the Start of the Algorithm	
9.	c) Tokens	
10.	d) 66	
11.	b) int	
12.	Any Answer because choice is wrong	
13.	b) A	
14.	b) Algorithm	
15.	b) E.W. Dijkstra	
PART – II		
16.	☆ Control unit, Arithmetic and logic unit (ALU) and Memory unit.	2
17.	☆ 101110_2	2
18.	☆ A command which is given to a computer to perform an operation on data is called an instruction.	2
19.	☆ It is used in computers and laptops that allow same data and applications to be accessed by multiple users at the same time. The users can also communicate with each other.	1.5
	☆ Windows, Linux and UNIX are examples for multi-user Operating System.	0.5
20.	☆ Save Explanation	0.5
	☆ Ctrl+S command	0.5
	☆ Save as Explanation	0.5
	☆ Ctrl+Shift+S Command	0.5
21.	☆ Algorithm Explanation	1
	☆ Process Explanation	1
22.	☆ Flowchart	2

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33.	<ul style="list-style-type: none"> ☆ User Interface ☆ File Management ☆ Memory Management ☆ Fault Tolerance ☆ Process Management ☆ Security Management 	3 (Each Feature 0.5)
PART – IV		
34. a)	☆ Six Generations of Computer	5
b)	<ul style="list-style-type: none"> ☆ 23_{10} Decimal to Binary Conversion - 00010111_2 ☆ 12_{10} Decimal to Binary Conversion - 00001100_2 ☆ Binary Addition - 00100011_2 	1.5 1.5 2
35. a)	<ul style="list-style-type: none"> ☆ Characteristics of Micro Processor ☆ Clock Speed ☆ Instruction Set ☆ Word Size 	1 1.5 1.5 1
b)	<ul style="list-style-type: none"> ☆ Method 1 Explanation ☆ Method 2 Explanation 	2.5 2.5
36. a)	<ul style="list-style-type: none"> ☆ Binary Operators Types ☆ Arithmetic Operator Explanation with Example ☆ Relational Operator Explanation with Example ☆ Logical Operator Explanation with Example ☆ Assignment Operator Explanation with Example 	1 1 1 1 1
b)	<ul style="list-style-type: none"> ☆ Types of Errors ☆ Syntax Error ☆ Semantic Error ☆ Run – Time Error 	1 1.5 1.5 1
37. a)	☆ Any 10 Versions	5
b)	<ul style="list-style-type: none"> ☆ Process Management Algorithms ☆ FIFO Explanation with Example ☆ SJF Explanation with Example ☆ Round Robin Explanation with Example ☆ Based on Priority Explanation with Example 	1 1 1 1 1
38. a)	☆ Data Types Classification	1

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	☆ int Data Type Explanation with Example	1
	☆ char Data Type Explanation with Example	1
	☆ float & double Data Type Explanation with Example	1
	☆ void Data Type Explanation with Example	1
b)	☆ Algorithm Design Techniques	1
	☆ Specification Explanation	1
	☆ Abstraction Explanation	1
	☆ Composition Explanation	1
	☆ Decomposition Explanation	1

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