

**CHRIST THE KING BOYS MATRIC HR. SEC. SCHOOL,
KUMBAKONAM – 612 001**

STD: XI**LESSON 1 TO 10****MARKS: 70****SUB: COMPUTER SCIENCE****TIME: 2.30 MINS****QUARTERLY MODEL QUESTION PAPER – 1****PART – I****I. CHOOSE THE CORRECT ANSWER:****15*1=15**

1. First generation computers used _____
a) Vacuum tubes b) Transistors c) Integrated circuits d) Microprocessors
2. _____ has the advantage of 'drawing' directly onto the screen.
a) Light Pen b) Retinal Scanner c) Optical Character Reader d) Microphone
3. How many bytes does 1 Kilo Byte contain?
a) 1000 b) 8 c) 4 d) 1024
4. Which of the following is said to be the brain of a computer?
a) Input devices b) Output devices c) Memory device d) Microprocessor
5. Which of the following OS is a commercially licensed Operating system?
a) Windows b) UBUNTU c) FEDORA d) REDHAT
6. From the options given below, choose the operations managed by the operating system?
a) Memory b) Processor c) I/O devices d) All of the above
7. The command used to create new folder is _____
a) File→New b) File→New→Folder c) File→NewFolder d) None of these
8. Stating the input property and the as:-output relation a problem is known _____
a) Specification b) Statement c) Algorithm d) Definition
9. _____ is the most effective mental tool used for managing complexity.
a) Specification b) Abstraction c) Composition d) Decomposition
10. How many times the loop is iterated?
 $i := 0$ while $i \neq 5$ $i := i + 1$
a) 4 b) 5 c) 6 d) 0
11. 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) $m = 8, n = -7$
12. Who coined C++?
a) Rick Mascitti b) Rick Bjarne c) Bill Gates d) Dennis Ritchie
13. By default, string literals are automatically added with a special character _____ at the end.
a) $'/0'$ b) $'\0'$ c) $'\n'$ d) $'\a'$
14. The set of statements that are executed again and again in iteration is called as _____
a) Condition b) Loop c) Statement d) Body of loop

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15. _____ always end with a semicolon (;).

- a) Sequential b) Selection c) Control d) Iteration

PART – II

II. ANSWER ANY 6 QUESTIONS: (Q.No.20 Compulsory)

6*2=12

16. What is Multimedia Projector?
17. What is Word Length?
18. What is Microprocessor?
19. Define OS
20. What is meant by Multitasking?
21. Define Algorithm
22. What is Input – Output relation?
23. Define Programming Language and Pseudo code
24. Define Boolean Literals and Character Constant

PART – III

III. ANSWER ANY 6 QUESTIONS: (Q.No.31 Compulsory)

6*3=18

25. Define Data and Information
26. Define the Following Terms: a) Nibble b) Bit c) Byte
27. How many types of accessing methods to access the memory?
28. What are the types of Software?
29. What are called Standard Icons and Shortcut icons?
30. Define Double Dash
31. What are the Disadvantages of Flowchart?
32. What is Dynamic Initialization?
33. What are the kinds of statements are there in C++?

PART – IV

IV. ANSWER THE FOLLOWING QUESTIONS:

5*5=25

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

[OR]

- b) Explain the Universal Gates with Truth Table and Symbol?

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35. a) Explain the Characteristics of Microprocessor?

[OR]

b) Explain the Algorithms that are used to allocate the Job?

36. a) What are the Elements of a Window? Explain it briefly?

[OR]

b) Explain the Building Blocks of the Algorithms?

37. a) Exchange the contents: Given two glasses marked A and B. Glass A is full of apple drink and glass B is full of grape drink. Write the specification for exchanging the contents of glasses A and B, and write a sequence of assignments to satisfy the specification.

[OR]

b) Write about the Binary Operators used in C++?

38. a) Write the Syntax and Flowchart for if-else-if ladder?

[OR]

b) Explain the For Loop with Syntax and Example?

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STD: XI**LESSON 1 TO 10****MARKS: 70****SUB: COMPUTER SCIENCE****TIME: 2.30 MINS****QUARTERLY MODEL QUESTION PAPER – 2****PART – I****I. CHOOSE THE CORRECT ANSWER:****15*1=15**

1. In ATM machines, which one of the following is used to
a) Touch Screen b) Speaker c) Monitor d) Printer
2. The _____ unit holds the data and instructions during the processing.
a) Output Unit b) Input Unit c) CPU d) Memory Unit
3. For 1101_2 what is the Hexadecimal equivalent?
a) F b) E c) D d) B
4. NOR is a combination of?
a) NOT(OR) b) NOT(AND) c) NOT(NOT) d) NOT(NOR)
5. _____ deals with the hardware components of a computer system.
a) Computer Architecture b) Computer Organization c) Both a & b d) None of these
6. Which of the following is a CISC processor?
a) Intel P6 b) AMD K6 c) Pentium III d) Pentium IV
7. Which of the following Operating systems support Mobile Devices?
a) Windows 7 b) Linux c) BOSS d) iOS
8. The _____ is the area in the document window to enter or type the text of your document.
a) Wordpad b) Workspace c) Window d) Text Area
9. 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) $0 \geq i$
10. Which of the following is not an invariant of the assignment? $m, n := m+2, n+3$
a) $m \bmod 2$ b) $n \bmod 3$ c) $3 \times m - 2 \times n$ d) $2 \times m - 3 \times n$
11. The object file becomes a _____ with extension .exe.
a) Compiler b) Interpreter c) Machine Readable d) Executable File
12. Which of the following operator is extraction operator of C++?
a) $>>$ b) $<<$ c) $<>$ d) \wedge
13. How many times the following loop will execute? for (int i=0; i<10; i++)
a) 0 b) 10 c) 9 d) 11
14. In an _____ loop, the test-expression is evaluated before the entering into a loop
a) Entry – Controlled b) Exit – Controlled c) Initialization d) Update Expression

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15. _____ Statement forces the loop to continue or execute the next iteration.

- a) goto b) break c) continue d) pass

PART – II

II. ANSWER ANY 6 QUESTIONS: (Q.No.19 Compulsory)

6*2=12

16. What are Bar Code Reader and QR Code Reader?
17. What is Base or Radix in the Number System?
18. What is Program Counter?
19. What is GUI?
20. What are the types of Window?
21. Write the parts of the Specification format?
22. What is meant by Flowchart?
23. Define Iteration and Recursion
24. Define Operator and Operand

PART – III

III. ANSWER ANY 6 QUESTIONS: (Q.No.31 Compulsory)

6*3=18

25. What are the types of Booting?
26. What is the Classification of Microprocessors based on Instruction Set?
27. What are the types of Operating System?
28. Differentiate the Cut and Copy in files and folders?
29. Difference between Assignment Operator and Equality Operator?
30. What is case analysis?
31. What is meant by Recursive Problem Solving?
32. What are Type Conversion and its types?
33. Define Infinite Loop and Empty Loop

PART – IV

IV. ANSWER THE FOLLOWING QUESTIONS:

5*5=25

34. a) Discuss the various generations of computers.

[OR]

b) Perform the Binary Arithmetic for the following:

i) Add $1101010_2 + 101101_2$

ii) Subtract $1101011_2 - 111010_2$

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35. a) What are the different types of ROM?

[OR]

b) Explain how to Copying Files and Folders to removable disk?

36. a) Explain the Algorithm Design Techniques?

[OR]

b) Explain the Case Analysis?

37. a) Assume an 8×8 chessboard with the usual coloring. "Recoloring" operation changes the color of all squares of a row or a column. You can recolor repeatedly. The goal is to attain just one black square. Show that you cannot achieve the goal. (Hint: If a row or column has b black squares, it changes by $(|8 - b) - b$).

[OR]

b) What are the different types of Errors in Dev C++?

38. a) What are the main steps to create and execute the C++ program?

[OR]

b) Explain Switch Statement with an example?

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STD: XI**LESSON 1 TO 10****MARKS: 70****SUB: COMPUTER SCIENCE****TIME: 2.30 MINS****QUARTERLY MODEL QUESTION PAPER – 3****PART – I****I. CHOOSE THE CORRECT ANSWER:****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. _____ is a collection of facts from which conclusions may be drawn.
 - a) Data
 - b) Information
 - c) Data Processing
 - d) AI
3. Which refers to the number of bits processed by a computer's CPU?
 - a) Byte
 - b) Nibble
 - c) Word length
 - d) Bit
4. $A + A = ?$
 - a) A
 - b) O
 - c) 1
 - d) \bar{A}
5. There are _____ types of accessing methods to access (read or write) the memory.
 - a) 2
 - b) 4
 - c) 6
 - d) 8
6. What is the capacity of 12cm diameter DVD with single sided and single layer?
 - a) 4.7 GB
 - b) 5.5 GB
 - c) 7.8GB
 - d) 2.2 GB
7. File Management manages
 - a) Files
 - b) Folders
 - c) Directory systems
 - d) All the Above
8. The Shortcut Key used to rename a file in Windows?
 - a) F2
 - b) F4
 - c) F5
 - d) F6
9. If $i = 5$ before the assignment $i := i-1$ after the assignment, the value of i is
 - a) 5
 - b) 4
 - c) 3
 - d) 2
10. How many times the loop is iterated?


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i := 0
while i ≠ 5
    i := i + 1
      
```

 - a) 4
 - b) 5
 - c) 6
 - d) 0
11. What was the original name given to C++?
 - a) CPP
 - b) Advanced C
 - c) C with Classes
 - d) Class with C
12. There are _____ modifiers used in C++.
 - a) 6
 - b) 2
 - c) 4
 - d) 3
13. Which of the following operator returns the size of the data type?
 - a) sizeof ()
 - b) int ()
 - c) long ()
 - d) double ()

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14. Which of the following is the exit control loop?

- a) For b) while c) do...while d) if...else

15. _____ Statement breaks the iteration.

- a) goto b) break c) continue d) pass

PART – II

II. ANSWER ANY 6 QUESTIONS: (Q.No.19 Compulsory)

6*2=12

16. Define Plotter and Speaker

17. What is the Classification of Microprocessors based on data width?

18. Write the steps to be followed to find 2's complement of a number?

19. Define FAT

20. Define Recycle bin

21. What is Access Time?

22. Define Initial State and Final State

23. What are the Symbols in Flowchart?

24. Define Lexical Elements or Tokens

PART – III

III. ANSWER ANY 6 QUESTIONS: (Q.No.31 Compulsory)

6*3=18

25. Define the following terms: a) Finger Print Scanner b) Retinal Scanner c) Track Ball

26. What is parallel processing?

27. How to delete the file and folder?

28. What are the types of RAM?

29. What is Cache Memory?

30. What is Assignment Statement?

31. What is difference between algorithm and a program?

32. Define the const Modifier and Reference?

33. What are the benefits of learning C++?

PART – IV

IV. ANSWER THE FOLLOWING QUESTIONS:

5*5=25

34. a) Explain the Various Input Devices?

[OR]

b) Find 1's Complement and 2's Complement for the following Decimal number

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a) -98 b) -135

35. a) Explain the Fundamental Gates with Truth Table and Symbol?

[OR]

b) Explain the Ports and Interfaces?

36. a) Define User Interface and write the points to be considered when user interface is designed?

[OR]

b) Describe the Various Versions of Windows?

37. a) 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.

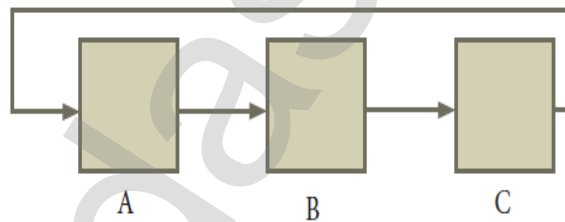
[OR]

b) Explain the While Loop with Syntax and Example?

38. a) Explain the Do – While Loop with Syntax and Example?

[OR]

b) Circulate the contents: Write the specification and construct an algorithm to circulate the contents of the variables A, B and C as shown below: The arrows indicate that B gets the value of A, C gets the value of B and A gets the value of C.



// ALL THE BEST