

Class : 11Register
Number**FIRST REVISION EXAMINATION - JANUARY - 2025****COMPUTER SCIENCE**

Time Allowed : 3.00 Hours]

[Max. Marks : 70

Instructions : (1) Check the question paper for fairness of printing. If there is any lack of fairness, inform the Hall Supervisor immediately.

(2) Use Blue or Black ink to write and underline and pencil to draw diagrams.

PART - I

Note : i) Answer All the questions.

15X1 = 15

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

- When a system restarts which type of booting is used.
(a) Warm booting (b) Cold booting (c) Touch boot (d) Real boot.
- For 1101_2 - the equivalent Hexadecimal equivalent is?
(a) F (b) E (c) D (d) B
- Which of the following is not the part of a microprocessor unit?
(a) ALU (b) Control unit (c) Cache memory (d) register
- Operating system is a
(a) Application Software (b) Hardware
(c) System Software (d) Component
- Which is the default folder for many Windows Applications to save your file?
(a) My Document (b) My Pictures
(c) Documents and Settings (d) My Computer
- 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) $0 \geq i$
- If C is false just before the loop, the control flows through
1 S1
2 while C
3 S2
4 S3
(a) S1 ; S3 (b) S1 ; S2 ; S3 (c) S1 ; S2 ; S2 ; S3 (d) S1 ; S2 ; S2 ; S2 ; S3
- Assume $a=5$, $b=6$; what will be result of $a \& b$?
(a) 4 (b) 5 (c) 1 (d) 0
- What is the alternate name of null statement?
(a) No statement (b) Empty statement (c) Void statement (d) Zero statement
- Which is return data type of the function prototype of $\text{add}(\text{int}, \text{int})$; ?
(a) int (b) float (c) char (d) double
- Structure definition is terminated by
(a) : (b) } (c) ; (d) ::
- Which of the following is a user defined data type?
(a) class (b) float (c) int (d) object
- Which of the following statements about member functions are True or False?
i) A member function can call another member function directly with using the dot operator.
ii) Member function can access the private data of the class.
(a) i) True, ii) True (b) i) False, ii) True
(c) i) True, ii) False (d) i) False, ii) False
- How will you invoke the function $\text{dispchar}()$ for the following input?
To print \$ for 10 times

```
void dispchar(char ch='$',int size=10)
{
    for(int i=1;i<=size;i++)
        cout<<ch;
}
```


(a) $\text{dispchar}()$; (b) $\text{dispchar}(\text{ch}, \text{size})$;
(c) $\text{dispchar}(\$, 10)$; (d) $\text{dispchar}(\$, 10 \text{ times})$;

KK/11/C.S/1

15. Which one of the following tracks a user visits a website?

- (a) spyware (b) cookies (c) worms (d) Trojans

PART - II

II. Answer any 6 Questions (Q.No 24 compulsory)

6x2=12

16. What is a computer?
17. Convert $(46)_{10}$ into Binary number
18. What is a program counter?
19. How will you Rename a File?
20. Define an algorithm.
21. What is the difference between an algorithm and a program?
22. What is the syntax to declare two – dimensional array.
23. What is polymorphism?
24. What is TSCII?

PART - III

III. Answer any 6 Questions (Q.No 33 compulsory)

6x3=18

25. Write short note on impact printer
26. List out the key features of Operating system
27. What is the use of a header file?
28. What are the information the prototype provides to the compiler ?
29. How to access members of a structure? Give example.
30. What is paradigm ?Mention the different types of paradigm.
31. What are the points to be noted while deriving a new class?
32. What is the role of firewalls?
33. Write with example how will you dynamically initialize objects?

PART - IV

IV. Answer the following.

5x5=25

34. (a) Explain the following .

1. Inkjet Printer
2. Multimedia projector
3. Bar code / QR code Reader

(OR)

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

1. -129
2. -45

35. (a) Explain the concept of a Distributed Operating System along with its advantages.

(OR)

(b) A single-square-covered board is a board of $2^n \times 2^n$ squares in which one square is covered with a single square tile. Show that it is possible to cover the this board with triominoes without overlap.

36. (a) Write about Binary operators used in C++.

(OR)

(b) Explain control statement with suitable example.

37. (a) Write a program to accept any integer number and reverse it.

(OR)

(b) Explain the different visibility mode through pictorial representation

38. (a) What is piracy? Mention the types of piracy? How can it be prevented?

(OR)

(b) Explain scope of variable with example.

KK/M. 11 / C.S/2