**IMPORTANT QUESTIONS**

**THEORY:**

1. What is Computer? Explain the block diagram of the computer.
2. What is Operating System? Write its characteristics, objectives and types.
3. What is Software and Hardware? Explain different types of software.
4. Explain different types of computer.
5. What is algorithm? Write the characteristics of algorithm.
6. What is memory hierarchy of the computer?
7. What is operator? Define 5 operators with examples.(Bitwise, cast, unary, logical, assignment)
8. Define all:
9. Keyword
10. Comment
11. Data type
12. Statement
13. What is storage class? Define all storage class with example.
14. What is control statement? Define all control statements with examples.(if-else,switch)
15. What is function and recursive function? Define with syntax.
16. What is file handling? Write some function using file handling.
17. What are macros? Define conditional and null conditional macros.
18. What is dynamic memory allocation? Define:
19. Calloc()
20. Malloc()
21. Alloc()
22. Free()
23. What is precedence and associatively?
24. Write the difference between:
25. Compiler & interpreter
26. while & do-while
27. RAM & ROM
28. Struct & Union
29. if & switch
30. Array & structure
31. Pseudo code and algorithm
32. Linear search and binary search
33. What is pointer? Define with example.
34. What is loop? Define all loops with syntax and example.(while,do-while,for)
35. What is link list? Define all type of link list.
36. What is string? Define four string functions with example.

21. Draw a flowchart for:

1. Armstrong
2. Prime number
3. reverse

**PROGRAMS:**

1. Write a program to find the greatest between 5 numbers by using conditional operator.
2. Write a program to check between 3 numbers which number is greater by using nested if.
3. Write a program to check whether entered character is vowel or not.
4. Write a program to find the area of square, circle, rectangle and triangle.
5. What is call by value or call by reference? Define with swapping program.
6. Write a program to enter any digit number and check it is Armstrong or not.
7. Write a program to enter 4 digit numbers and reverse it.
8. Write a program to count all prime numbers from 1-100.
9. Write a program to find sum of series:
10. ……
11. Write a program to print the pyramid:
12. 1

2 3

4 5 6

7 8 9 10

11 12 13 14 15

1. 5

5 4

5 4 3

5 4 3 2

5 4 3 2 1

1. 1

1 0

1 0 1

1 0 1 0

1 0 1 0 1

1. 5 5 5 5 5

4 4 4 4

3 3 3

2 2

1

1. 55555

54444

54333

54322

54321

1. Abcde

Abcd

Abc

Ab

a

1. Write a program to sort the list in ascending order by:
2. Selection
3. Insertion
4. Write a program to enter two 3x3 matrix and multiply in 3rd matrix.
5. Write a program to enter any 3x3 matrix and transpose it.
6. Write a program to search any value from the list. linear search ,binary search
7. Write a program to convert decimal to binary.
8. Write a program to check if entered string is palindrome or not.
9. Write a program to copy the content of abc.txt to xyz.txt.
10. Write a program to write all squares between 1 to 10 inside the file and read it.
11. Write a program to find Fibonacci series by using recursive function.
12. Write a program to find factorial by using recursive function.