



PAPER's Code-

ADCA-07/DIT-07

Time:- 02 :00 Hours

Max Mark's:-100

Introduction of 'C' Programming

Section A (MCQ)

5*1=5

1. Who is known as the father of C Language ?
 - (a) James A. Sosling
 - (b) Dennis Ritchie
 - (b) Vjarne Stroustrup
 - (c) Dr. E. F. Codd
2. C Language was developed in the year ____
 - (a) 1970
 - (b) 1971
 - (c) 1972
 - (d) 1973
3. Which one is not a reserve keyword in C Language?
 - (a) auto
 - (b) main
 - (c) case
 - (d) register
4. Prototype of a function means ____
 - (a) Declaration of Function
 - (b) main
 - (c) case
 - (d) register
5. Name the loop that executes at least once.
 - (a) For
 - (b) while
 - (c) do-while
 - (d) if

Section B (True / False)

5*1=5

1. Only character or integer can be used in switch statement.
2. The ++ operator increments the operand by 1, whereas, the -- operator decrements it by 1.
3. Algorithm is the graphical representation of logic.
4. An interpreted program always executes slower than a compiled program.
5. Size of () is a function that returns the size of a variable.

Section C (Long Questions)

6*15=90

Note: -Attempt *ALL* questions

1. Describe Programming elements in breif.
2. What are different types of data types and operators? Explain with suitable example.
3. Describe Bubble sorting technique with program.
4. What are different types of differentiate between '**continue**' and '**break**' control?
5. Differentiate between **while** loop and **do-while**-loop statement. Give suitable example.
6. Write 'C' program of following (Any Two).
 - (a) Series of Prime Numbers.
 - (b) Reverse Natural Numbers.
 - (c) Odd series Numbers.

Introduction of 'C' Programming

Section A(MCQ)

2. A compiler will
(a) find syntax errors (b) fix syntax errors
(b) find logic errors (c) All of the above
3. An algorithm should be written
(a) in Java (b) in machine language
(c) Without syntax errors (d) in a natural language such as English
- 3 The equality operator is represented by
A] := B] .EQ. C] = D] ==
- 4 Which among the following is a unconditional control structure
A] do-while B] if-else C] goto D] for
- 5 In the C language 'a' represents
A] a digit B] an integer C] a character D] a word

Section B (True / False)

6. By a compiler we mean a program that translates to code that will run natively on some machine.
7. The function space type operator is right associative.
8. An interpreter never translates to intermediate code.
9. An interpreted program always executes slower than a compiled program.
10. Computer science is the study of computers.

Section C (Long Questions)

Note: -Attempt **any Six** questions

1. Discuss about file organizations with the help of suitable example.
2. What are different types of data types and operators? Explain with suitable example.
3. Describe about various category of sorting technique with program
4. What are different types of control structure in 'C' language?
5. Differentiate between switch case and else if statement. Give suitable example.
6. Differentiate between while loop and do-while-loop statement. Give suitable example.
7. Write 'C' program of following (**Any Two**).
(a) Fibonacci series. (b) Prime Numbers. (c) Armstrong Numbers.
8. What is pointer? Describe in brief with the help of example.

- 1:- What are different types of data types and operators? Explain with suitable example.
- 2:- What are different types of escape sequence and format specifier? Give suitable example.
- 3:- What is call by value and call by reference function ? Give suitable example.
- 4:- Draw a flow chart to check largest of any three numbers.
- 5:- Write the hierarchy of operations with suitable example.
- 6:- What is pointer? Explain its role in programming. Give suitable example.
- 7:- If the marks obtained by the student in five subjects is entered through Keyboard. Write a program to calculate avg. marks & percentage
- 8:- Differentiate between the following-
 - a) Variable & Constant.
 - b) Break & Continue statements
 - c) Relational & Logical Operators
 - d) Switch and nested if-else statements.
 - e) Logical & Conditional Operator.
- 9:- Write 'C' program to generate following pattern.

1	1	1
12	21	21
123	321	321
1234	4321	4321
1234554321		54321

- 10:- Differentiate between characters and strings using suitable example.