CFY-8401

Seat No._____

P. G. D. C. A. (Sem. I) (External) Examination

November - 2019

Fundamentals of Programming Language 'C'

(New Course)

Time : $2\frac{1}{2}$ Hours] [Total Marks : 70

1 (a) Attempt the following : 6

(1) What is algorithm ?

(2) What is constant ?

(3) What is operator ?

(4) What is keywords and identifiers ?

(5) What is array ?

(6) What is size of operator ?

(b) Attempt any two : 12

(1) Explain basic structure of C language.

(2) Explain characteristics of higher level language.

(3) Explain bit-wise and logical operator.

2 (a) Attempt the following : 5

(1) Write a syntax of GOTO statement.

(2) Explain switch-case with example.

(b) Attempt any two : 12

(1) Explain different type of array.

(2) What is a different between printf( ) and fprintf( ) functions ?

(3) List out all operators. Explain relation operators in detail.

3 (a) Attempt the following :

(1) Explain assignment operator with suitable example.

(2) List out all token of C language.

(b) Attempt any **two** : 12

(1) Explain printf and scanf statement with example.

(2) What is string ? Explain string handling function.

(3) Write a C program to find out the largest value from given three number using conditional operator.

4 (a) Attempt the following : 5

(1) What is file ? Why file handling is required in a C language ?

(2) Explain arithmetic operator with example.

(b) Attempt any **two** : 12

(1) Write a C program to sort given string descending order.

(2) Write a C program to convert given line into upper case or lower case.

(3) Write a C program to display following output on the screen.

1

1 0

1 0 0

1 0 0 0

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INSB INSTITUTE OF INFORMATION TECHNOLOGY & MGT. STUDIES, BCA/PGDCA COLLEGE, IDAR

BCA Sem-I Internal Examination Oct 2021

Subject code: BCA101 **Subject Name: FOP 'C'**

Date: 26 /10/ 2021 **Time: 09.30 -12.00pm**
Total Marks: 70

Instructions:

1. Attempt all questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.

Q.1 (a)Do as Directed	**4**
1. Define : Flowchart	
2. Who developed Traditional C ?	
3. Every line in a C program should end with ';'	
4. Syntax error detected by Compiler	
(b) Explain Type of Programming languages	**5**
(c) Compiler VS Interpreter	**3**
Q.2 (a)Explain Basic Structure of C Program	**5**
(b)Explain C TOKENS	**5**
OR	
(b) Explain Data Types of C Language	**5**
(c) Explain Operators of C	**8**
Q.3 (a)What is Evaluation of Expression in C? Explain it with example.	**4**
(b) Short note on Type Conversation in Expressions?	**4**
OR	
(a) Explain Input and Output Operation in C program	**4**
(b) Distinguish GETCHAR() and SCANF()	**4**

Q.4 (a) Explain Decision Making and Branching Statement with examples. 8

(b) Explain Decision Making and Looping Statement with examples. 8

OR

(a) Explain Counter and Sentinel Controlled Loops 8

(b) Write a C program to explain GOTO statement executions 8

Q.5 (a)Write C Program for Summation, subtraction, multiplication of two number using switch statement. 8

(b) Write Algorithm and draw flowchart for greatest of Two Number. 8

OR

(a)Give Output of Following Programs 8

Programe:

```
#include<stdio.h>
#include<conio.h>
void main()
{
  int no1, no2;
  printf("Enter No1 and No2");
   scanf("%2d  %5d",&no1,&no2);

  printf("No1 is %d and No2 is %d",no1,no2);
  getch();
}
```

1. USER INPUT: 50 31426
2. USER INPUT: 31426 50

(b) Write a program for while loop execution. 8

ALL THE BEST

Seat No.: _____ Enrolment No._____

INSB INSTITUTE OF INFORMATION TECHNOLOGY & MGT. STUDIES,BCA COLLEGE, ACCHE, PGDCA COLLEGE, IDAR

PGDCA Sem-I Internal Examination Oct 2021

Subject code: DCA101 **Subject Name: FOP 'C'**

Date: 26 /10/ 2021 **Time: 09.30 -12.00pm**
Total Marks: 70

Instructions:

1. Attempt all questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.

Q.1 (a)Do as Directed 8

1. Define : Algorithm
2. Who developed Traditional C ?
3. Every line in a C program should end with ';'
4. _____Function is used to display output on screen.

(b) Explain Type of Programming languages 7

(c) Compiler VS Interpreter 3

Q.2 (a)Explain Basic Structure of C Program 8

(b)Explain C TOKENS 8

OR

(b) Explain Data Types of C Language 8

(c) Explain Operators of C 8

Q.3 (a) What is Evaluation of Expression in C? Explain it with example. 4

(b) Short note on Type Conversation in Expressions? 4

OR

(a) Evalute Expression : 8+5*6-1 4

(b)Explain Rules of Identifiers 4

Q.4 (a)Write C Program for Summation, subtraction, multiplication of Two numbers. 5

(b) Write Algorithm and draw flowchart for Addition of Two Number. 10

(c)Give Output of Following Programs. 5

Programe:

```
#include<stdio.h>
 #include<conio.h>
void main()
{
   int no1=10, no2=20;
   printf("Enter No1 \n and \nNo2");

    printf("No1 is %d and No2 is %d",no1,no2);
    getch();
}
```

ALL THE BEST

(2) 101 - Fundamentals of Programming Language 'C' *(New Course)*

1 (a) Do as directed : 6

(1) An Integer variable can take _____ bytes.

(2) Which of the following is allowed in a C arithmetic instruction ?

(a) [] (b) {}

(c) () (d) None of these

(3) A C variable cannot start with

(A) An Alphabet (B) a number

(C) A special symbol (D) Both (B) and (C)

(4) By default a real number is treated as :

(A) int (B) float

(C) double (D) long double

(5) Define external typecasting.

(6) Associativity has no role to play unless the precedence of operator is same. (True/False)

(b) Attempt any **two** : 12

(1) What is a flow chart ? Discuss about various symbols used to draw a flow chart with suitable example.

(2) Explain primary data types in 'C' language.

(3) Explain C Tokens.

2 (a) Write short note on any **two** : 5

(1) The expression $x = 4 + 2 \% -8$ evaluates to

(A) –6 (B) 6

(C) 4 (D) None of these

(2) If a is an integer variable, a = 5/2; will return a value

(A) 2.5 (B) 3

(C) 2 (D) 0

(3) _____ operators are used to compare values to operands to produce logical value in C. (Relational/Logical)

(4) The modulus operators can be used only with integers. (True/False)

(5) What is/are the number of operand/operands needed to unary increment operator ?

(A) 3 (B) 2

(C) 1 (D) 4

(b) Attempt any **two** : 12

(1) Explain Logical operators with syntax and example.

(2) Explain increment and decrement operator with example.

(3) Write a C program to evaluate simple interest I = P*R*N / 100.

3 (a) Do as directed : 6

(1) Give syntax of if.....else if ladder.

(2) What is 'goto' statement ?

(3) Define gets ().

(b) Attempt any **two** : 12

(1) Explain switch statement with syntax.

(2) Explain types of loops available in 'C'.

(3) Write a C program to find that the enter number is odd or even.

4 (a) Define following terms : 5.

(1) The type of elements in an array must be same. (T/F)

(2) The _____ statement is used to skip part of statement in loop.

(3) Define String.

(4) Give method of initializing array.

(5) Give types of Array.

(b) Attempt any **two** : 12

(1) Explain syntax, purpose and example of any two string handling function.

(2) Write a C program to find the maximum value from given array.

(3) Write a C program to count number of words, line and space from given text.