

B.Sc.(IT) Semester - 1 (CBCS) Examination
Oct/Nov. -2019 (New Course)
PROGRAMMING IN C (CORE)

Time: 2:30 Hours

Marks: 70

Instructions:

1. All questions are compulsory.
2. Figures to the right indicate marks.

Question : 1 (A) Answer the following questions. (all three) 03

- (1) Give full form : ANSI
- (2) What is the range of unsigned char data type in C language?
- (3) Comment lines are ignored by compiler at compile time. Is it true or false?

Question : 1 (B) Answer the following question. (any two) 06

- (1) Explain Control String.
- (2) List out all C tokens. Describe all tokens. Also give the example of it.
- (3) Draw a flowchart to print 1 to 20.
- (4) What is Type Casting? How can it used in programming.

Question : 1 (C) Answer the following question. (any one) 05

- (1) What is Operator? List out all operators available in C language. Explain any two of them.
- (2) Write a short note on pre-processor in C language.

Question : 2 (A) Answer the following questions. (all three) 03

- (1) do...while loop is also known as exit control loop. True or False?
- (2) _____ statement is used to terminate the loop.
- (3) What is the output?

```
#include<conio.h>
#include<stdio.h>
Void main()
{
    int i;
    for(i=10;i<=30;i++)
    {
        i=i+8;
    }
    printf("%d", i);
}
```

Question : 2 (B) Answer the following question. (any two) 06

- (1) Explain while() loop with example.
- (2) Explain do...while() loop with example.
- (3) Explain break statement with example.
- (4) Explain continue statement with example.

Question : 2 (C) Answer the following question. (any one) 05

- (1) What is "if" statements. List out their types. Explain nested if with example.
- (2) Write a program to print following output.

```
*
* *
* * *
* * * *
* * * * *
```

Question : 3 (A)	Answer the following questions. (all three)	03
(1)	Define : header file	
(2)	Define : printf () function	
(3)	Define : scanf () function	
Question : 3 (B)	Answer the following question. (any two)	06
(1)	Write a short note on : Recursion	
(2)	Explain : malloc (), calloc (), realloc () functions.	
(3)	Explain call by value and call by reference with example.	
(4)	Explain : islower (), isupper (), isdigit () functions.	
Question : 3 (C)	Answer the following question. (any one)	05
(1)	What is U.D.F.? List out all types of U.D.F. available in C language and explain any two with example.	
(2)	Write a short note on : Storage Classes available in C language.	
Question : 4 (A)	Answer the following questions. (all three)	03
(1)	Array index value is always starts from 0. True or False?	
(2)	Write down only syntax of : union	
(3)	Write down only syntax of : structure	
Question : 4 (B)	Answer the following question. (any two)	06
(1)	What is structure? Why we used it? Explain its advantages and limitation.	
(2)	What is Array Within Structure? Explain it.	
(3)	Write a short note on : String Array. Also give proper example.	
(4)	Write a program to create double dimensional array of 3 by 5. Enter value from keyboard and also print that data.	
Question : 4 (C)	Answer the following question. (any one)	05
(1)	Describe : Nested Structure with example	
(2)	What is an Array? Explain all types with details.	
Question : 5 (A)	Answer the following questions. (all three)	03
(1)	What is Pointer?	
(2)	What is double pointer?	
(3)	Give Full Form : CLA	
Question : 5 (B)	Answer the following question. (any two)	06
(1)	Explain pointer within array with example.	
(2)	Explain pointer to structure with example.	
(3)	Write a short note on : Command Line Arguments	
(4)	Describe : Use of pointers in Dynamic Programming.	
Question : 5 (C)	Answer the following question. (any one)	05
(1)	Write a program to enter 10 values from keyboard and store in array using pointer. Also print this values using pointer variable.	
(2)	Describe important of File Handling in C language. Also explain I/O operation in File Handling.	
