

B.Sc.(IT) Semester - 1 (CBCS) Examination
Jan/Feb.-2022 (NEW COURSE)
PROGRAMMING IN C(CORE)

Time: 1:30 Hours**Marks: 42****Instructions:**

1. Figures to the right indicate marks.
2. There are five questions in the question paper.
3. Answer any three of the following questions.

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- Q:1(A) Answer the following questions. (all three) 03
- (1) Who invented C language?
 - (2) What is the range of unsigned char data type in C language?
 - (3) What is keyword?
- Q:1(B) Answer the following question. (any two) 06
- (1) List out all C tokens. Describe all tokens. Also give the example of it.
 - (2) Draw a flowchart to print 1 to 20.
 - (3) What is Operator? List out all operators available in C language. Explain any two of them.
 - (4) What is C character set?
- Q:1(C) Answer the following question. (any one) 05
- (1) What is Type Casting? How can it used in programming.
 - (2) Write a short note on pre-processor in C language.
- Q:2(A) Answer the following questions. (all three) 03
- (1) Write down the syntax of GOTO statement.
 - (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=5;i<=25;i++)
 {
 i=i+8;
 }
 printf(“%d”, i);
}
- Q:2(B) Answer the following question. (any two) 06
- (1) Explain while() loop with example. Also give their advantages.
 - (2) Explain continue statement with example.
 - (3) Explain break statement with example.
 - (4) Explain nested do...while loop with example.
- Q: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.
0 0 0 0 0
0 0 0 0 0
0 0 1 0 0
0 0 0 0 0
0 0 0 0 0

Q:3(A) Answer the following questions. (all three)	03
(1) What is heard file?	
(2) Give difference between clock() and localtime()	
(3) _____ header file must be included if we want to used line() or circle() function in program.	
Q:3(B) Answer the following question. (any two)	06
(1) Explain call by value and call by reference with example.	
(2) Explain : malloc (), calloc (), realloc () functions.	
(3) Describe Recursion. Explain it with a program.	
(4) Explain any three header files in short.	
Q:3(C) Answer the following question. (any one)	05
(1) Write a short note on : Storage Classes available in C language.	
(2) What is U.D.F.? List out all types of U.D.F. available in C language and explain any two with example.	
Q:4(A) Answer the following questions. (all three)	03
(1) Array index value is always starts from 0. Is it true or false?	
(2) Give the main difference between Array and Structure.	
(3) Define : Union	
Q:4(B) Answer the following question. (any two)	06
(1) What is structure? Why we used it? Explain its advantages and limitation.	
(2) Explain : String Array. Also give proper example.	
(3) Write a program to print all prime numbers between 1 to 1000. (the number which is divisible by 1 and itself is known as prime number. For example : 2,3,5,7,11...etc)	
(4) Write a program to enter any 10 values from keyboard and print those numbers which is less than average value.	
Q:4(C) Answer the following question. (any one)	05
(1) What is an Array? Explain all types with details.	
(2) Explain : Array with functions using UDF.	
Q:5(A) Answer the following questions. (all three)	03
(1) What is Pointer?	
(2) What is the use of double pointer?	
(3) Give Full Form : CLA	
Q:5(B) Answer the following question. (any two)	06
(1) Describe : Command Line Arguments. Give their advantages.	
(2) Explain pointer to structure with example.	
(3) Explain pointer within array with example.	
(4) Define : Use of pointers in Dynamic Programming.	
Q: 5(C) Answer the following question. (any one)	05
(1) Describe important of File Handling in C language. Also explain I/O operation in File Handling.	
(2) Write a program to enter any value and print that given number is Armstrong or not. (Armstrong number means, the sum of cubes of each digits is equal to the number itself.)	
