

B.Sc.(IT) Semester - 1 (CBCS) Examination
Feb/Mar. -2021 (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.

-
- Q.1(A) Answer the following. (03)
1. What is type conversion?
 2. What is dry – run?
 3. Which data type is used to store alphabets or symbols?
- Q.1(B) Attempt any two. (06)
1. Define constant. How it is useful in programming?
 2. Briefly state the history of C language.
 3. List various logical operators. Explain any one.
 4. Explain with example: PRE-PROCESSORS.
- Q.1(C) Attempt any one. (05)
1. List various Logic Development Tools. Explain any one.
 2. State the differences between traditional C and modern C.
- Q.2(A) Answer the following. (03)
1. What is a nested loop?
 2. _____ part in an if-else statement gets executed when the test condition is true.
 3. Give one example of entry controlled loop.
- Q.2(B) Attempt any two. (06)
1. Explain : do while loop. What is its usefulness?
 2. Explain with example : goto statement.
 3. Explain the usefulness of break statement giving proper example.
 4. What is the role of Looping Structures in programming?
- Q.2(C) Attempt any one. (05)
1. List various decision structures. Explain any one.
 2. Write a program which decides whether the entered number is an odd number or an even number.
- Q.3(A) Answer the following. (03)
1. Which function is used to clear the output screen?
 2. What is the full form of UDF?
 3. The default storage class of a variable declared in main() is _____
- Q.3(B) Attempt any two. (06)
1. What are header files? What is their use?
 2. Explain with syntax : malloc()
 3. What is the difference between scanf() and gets()?
 4. Explain with example any one Mathematical function.
- Q.3(C) Attempt any one. (05)
1. Explain giving example : recursion and its use in programming.
 2. Write a program that takes up a number and generates its square root inside a UDF.
- Q.4(A) Answer the following. (03)
1. An _____ is a collection of values each of the same datatype.
 2. What is a string?
 3. What is nesting of structure?

- Q.4(B) Attempt any two. (06)
1. Explain the concept of multidimensional array.
 2. Explain with syntax and example : array of structure.
 3. Explain the concept of Union.
 4. Explain : UDF with structures.
- Q.4(C) Attempt any one. (05)
1. Write a program that takes up the marks of 6 subjects in array. Generate the total and percentage. Display all the marks subjectwise with total and percentage obtained.
 2. Write a program to record the following information of 10 employees using structure: Employee name(character), employee id(character), salary(integer)
Display the record of each of the employees.
- Q.5(A) Answer the following. (03)
1. What is a data file?
 2. _____ function is used to read string from file.
 3. In _____ mode, file is opened keeping its previous content intact.
- Q.5(B) Attempt any two. (06)
1. Explain giving syntax, the use of feof().
 2. What are command line arguments? When they are used?
 3. Explain briefly : pointer to array.
 4. Explain the use of pointers in dynamic programming.
- Q.5 (C) Attempt any one. (05)
1. Write a program of your choice that states the use of pointer to pointer.
 2. What is file handling? List important functions used in handling data files.
