**SESSION**

**JUL/AUG 2021**

**PROGRAM**

**BCA**

**SEMESTER**

**I**

**COURSE CODE & NAME**

**DCA1102 - Programming in C**

**Q. 1 What is the basic structure of C program? Write a program to calculate the area of a circle?**

**Basic structure of C program**

Basic structure of the C program is divided into six different sections:

**Documentation section**: The Documentation section consists of a set of comment lines.

**Link section**: The link section provides instruction to the compiler to link the header files or functions from the system Its Half solved only

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**Q. 2 What is the use of control statements in C? Explain various control statements in C programming language?**

Control statements enable us to specify the flow of program control; ie, the order in which the instructions in a program must be executed. They make it possible to make decisions, to perform tasks

**Q. 3 What is the purpose of storage class in C? Explain various types of storage class in C?**

A storage class defines the scope (visibility) and life-time of variables and/or functions within a C Program. They precede the type that they modify. We have four different storage classes in a C program − Storage Classes are used to describe the features of a variable/function. These features basically include the scope, visibility and life-time which help us to trace the existence of a

**Q. 4 What is an array? Explain the declaration and initialization of one and two-dimensional arrays with example.**

An array is defined as an ordered set of similar data items. All the data items of an array are stored in consecutive memory locations in RAM. The elements of an array are of same data type and each item can be

**Q. 5 (a) What is a pointer? How to declare and initialize it?**

**(b) Write a C program to illustrate the use of indirection operator to access the value pointed by a pointer?**

Pointer is a variable used to store the address of another variable or a memory location. It always stores a integer since it shares an address. The pointer in C language is a variable which stores the address of another variable. This variable can be of type int, char, array, function, or any other pointer.

**Q.6 (a)Define Structure and write the general syntax for declaring and accessing members?**

**(b) Write a C program to show employee details using structure?**

Structure in c is a user-defined data type that enables us to store the collection of different data types. Each element of a structure is called a member. Structures ca; simulate the use of classes and templates as it can