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| **SESSION** | **SEPTEMBER 2022** |
| **PROGRAM** | **BACHELOR of COMPUTER APPLICATIONS (BCA)** |
| **SEMESTER** | **I** |
| **course CODE & NAME** | **dca1102 – Programming in c** |

**Set - I**

**Questions**

**1. Describe various features of the C programming language.**

**Ans:** C is characterized by the ability to write very concise source programs, due in part to the large number of operators included within the language. It has a relatively small instruction set, though actual implementations include extensive library functions which enhance the basic

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**2. Explain various branching statements in C with examples.**

**Ans:** A branch is an instruction in a computer program that can cause a computer to begin executing a different instruction sequence and thus deviate from its default behaviour of executing instructions in order. Common branching statements include break, continue,

**3. Define a function. List and explain the categories of user-defined functions.**

**Ans:** A function is a self-contained program segment that carries out some specific, well-defined task. Every C program contains one or more functions. One of these functions must be called main. Program execution will always begin by carrying out the instructions in main.

**Set - II**

**4. Define an array. How to initialise one-dimensional array? Explain with suitable examples.**

**Ans:** 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 accessed

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

**Ans:** A Structure definition creates a format that may be used to declare structure variables. For e.g., Consider a book database consisting of book name, author, number of pages and

**(b). List out the differences between unions and structures.**

**Ans:**

**6. What is a pre-processor directive? Explain define, and #include pre-processor directives.**

**Ans:** Preprocessor directives are lines of the source file where the first non-whitespace character is #, which distinguishes them from other lines of text. The effect of each preprocessor directive is a change to the text and the result is a transformation of the text that