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Seat No. : 01465

DL-102

December-2022

BCA., Sem.-I

CC-102 : Introduction to Programming Language using "C"

Time : 2:30 Hours]

[Max. Marks : 70

1. (A) Define variable and constant. List all naming conventions for a valid variable name. 7
(B) Define flowchart. List and explain all symbols used to draw a flowchart. 7

OR

(A) Write structure of C program and program execution steps. 7
(B) Draw a flowchart to find N ! (Factorial) where N is given by user. 7
2. (A) List different types of if statements. Explain nested if statement with suitable example. 7
(B) List all logical and relational operators. Explain all logical operators with example. 7

OR

(A) Discuss in detail - all format specifiers used in printf() and scanf() statements. 7
(B) Write short note on Unary operators used in C language. 7
3. (A) Differentiate between entry-controlled loop and exit-controlled loop. Explain do..while loop with example. 7
(B) What is Array ? Discuss with example about how to declare and initialize one-dimensional and two-dimensional arrays. 7

OR

(A) Explain for loop with syntax. Explain all sections of for loop with example. 7
(B) Differentiate between break and continue statements with example. 7
4. (A) List at least 5 string functions defined in string.h. Explain strcmp() by taking example. 7
(B) List different categories of user defined functions. Explain actual arguments and formal arguments with suitable example. 7

OR

(A) Define function. Discuss a function which don't take any arguments but returns a value with example. 7
(B) Explain recursion with example. 7

5. MCQs : (Attempt any 7 out of 12)

- (1) Which of the following is not a keyword in C language ?
(a) short (b) include
(c) exception (d) void
- (2) Assembly language is a _____.
(a) Higher level language (b) Lower level language
(c) Middle level language (d) All of the above
- (3) C language is a _____.
(a) Object oriented language (b) Object based language
(c) Procedural language (d) None of the above
- (4) What is the size of a float variable ?
(a) 1 byte (b) 8 bytes
(c) 4 bytes (d) 2 bytes
- (5) All arithmetic operators are _____.
(a) Unary operators (b) Binary operators
(c) Ternary operators (d) All of the above
- (6) _____ operator has highest precedence.
(a) + (b) &&
(c) () (d) /
- (7) An array element index starts with _____.
(a) -32768 (b) 10
(c) 1 (d) 0
- (8) Which of the following statement is used to alter the normal sequence of program execution by unconditionally transferring control to some other part of the program ?
(a) break (b) continue
(c) exit (d) goto
- (9) Which loop is guaranteed to execute at least one time ?
(a) while (b) do... while
(c) for (d) All of the above
- (10) A string is initialized with
(a) Single quotes (' and ') (b) Double quotes (" and ")
(c) No quotes (d) None of the above
- (11) Variable declared outside all functions is called _____.
(a) local variable (b) global variable
(c) static variable (d) None of the above
- (12) Which of the following are storage classes in C language ?
(a) auto (b) static
(c) register (d) all of the above