# First Year B.C.A ( Semester - I ) Examination
## Paper - 15BCA102
## Programming Methodology Using C

Time : Three hours]                                    [Full Marks - 60

**N.B. :**   i)   All questions carry equal marks
ii)   Due credit will be given to neatness & adequate dimensions.
iii)  Illustrate your answer necessary with the help of neat skectches.
iv)  Use Blue/Black ink/refill only for writing the answer book.

Q.1   Choose correct alternative.                                    5
a)   C language uses _____
i)   Compiler                        ii)  Interpreter
iii) Assembler                       iv) All of the above
b)   C- language is introduced in the year _____
i)   1960                            ii)  1970
iii) 1962                            iv)  1972
c)   ____ accepts input without displaying it on the screen (With No echo)
i)   scanf ( )                       ii)  getchar ( )
iii) getch ( )                       iv) gets ( )
d)   _____ statement is used to terminate a loop.
i)   stop                            ii)  continue
iii) break                           iv)  exit
e)   Pointer can point towards _____
i)   data                            ii)  Array
iii) pointer                         iv) All of the above

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Q.2 a) What is an Algorithm ? Explain with example.  5
    b) What are the features of structured programming ?
       Explain.  6

OR

Q.3 a) What is Flow Chart ? Explain with example.  5
    b) Explain :-  6
       i) Debugging
       ii) Documentation

Q.4 a) State and explain basic data types supported by
       C-languages.  5
    b) Explain :-  6
       i) Modifiers
       ii) Symbolic constant

OR

Q.5 a) What are Identifiers ? State and explain the rules for
       forming and Identifier in C.  5
    b) Explain :-  6
       i) Enumerated data type
       ii) Keywords

Q.6 a) How I/O task is achieved in C- language ? Explain.  6
    b) State and explain bitwise operators supported by
       C-language.  5

OR

Q.7 a) What is type casting ? State and explain its need.  5
    b) Explain :-  6
       i) Ternary Operator   ii) getch ( )   iii) gets ( )

Q.8 a) Write a program to print table of a number.  5
    b) How multiple decision making task is achieved in
       C-language ? Explain with example.  6

OR

Q.9 a) Write a program to print factorial of a number.  5
    b) Explain :-  6
       i) Nested loop
       ii) Break
       iii) Continue

Q.10 a) How Multidimentional arrays are declered and
        initialised ? Explain with example.  6
     b) What is Pointer ? State and explain basic operation
        with pointers.  5

OR

Q.11 a) Write a program to demonstrate the use of pointers. 6
     b) What is an Array ? State and explain types of array. 5

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