

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 sketches.
 - iv) Use Blue/Black ink/refill only for writing the answer book.

Q.1 Choose correct option from given alternative. 5

- a) _____ is a program that converts assembly language program into machine language.
 - i) Compiler
 - ii) Assembler
 - iii) Interpreter
 - iv) Converter
- b) The value that do not change during the program execution is known as _____.
 - i) Varibale
 - ii) Array
 - iii) Constant
 - iv) Function
- c) _____ operator is a ternary operator.
 - i) Arithmetic
 - ii) Relational
 - iii) Conditional
 - iv) Bitwise
- d) _____ is a looping statement.
 - i) if
 - ii) switch
 - iii) for
 - iv) Break
- e) _____ is a collection of homogeneous data items sharing common name.
 - i) Structure
 - ii) Pointer
 - iii) Array
 - iv) Function

- Q.2 a) What is Flowchart ? Explain the various symbols of flowchart. 5
b) Explain testing and debugging. 6

OR

- Q.3 a) Explain :- 6
i) Assembler ii) Compiler
b) Explain the types of programming languages and write any three differences between them. 5

- Q.4 a) Explain the basic structure of a C program with suitable example. 5
b) What is constant ? Explain various types of constants with proper example. 6

OR

- Q.5 a) Explain the basic data types used in C. 5
b) Explain with suitable example. 6
i) Symbolic constant ii) Variable

- Q.6 a) Explain formatted I/O functions in C along with all formatting characters used by it. 5
b) Write and explain the relational and bitwise operators in C. 6

OR

- Q.7 a) Explain with proper example. 6
i) Assignment operator ii) Arithmetic operator
b) Explain unformatted Input functions in C along with proper example. 5

- Q.8 a) Explain the following with syntax and suitable example. 6
i) Switch statement ii) Do-While
b) Write a program in C to display multiplication table of 5. 5

OR

- Q.9 a) Explain the following with syntax and proper example. 6
i) if statement ii) for statement
b) Explain the use of break and continue in a for loop with suitable example. 5

- Q.10 a) What is an Array ? How does 2 dimensional array can be declared and initialized with proper example. 6
b) What is Pointer ? How does the pointer declared and initialized with proper example. 5

- Q.11 a) What do you mean by accessing array elements ? Explain with suitable example. 5
b) Explain with suitable example. 6
i) Pointer Arithmetic ii) One Dimensional Array
