

First Semester BCA Degree Examinations
May / June 2022
(CBCS NEP Scheme)

Paper : NBA 0220 : PROGRAMMING IN C

Time : 2 Hrs.

Max. Marks : 60

1. Select the most appropriate answer from the options provided: (10x1=10)

- i. The software used for converting High Level Code into Machine Code is
(a) Hardware (b) Compiler
(c) Linker (d) Loader
- ii. The size of float data type is _____.
(a) 2 Bytes (b) 8 Bytes
(c) 4 Bytes (d) 1 Byte
- iii. The format specifier used for double data type is:
(a) %d (b) %lf
(c) %f (d) %c
- iv. Escape sequence for carriage return is:
(a) \n (b) \w
(c) \c (d) \r
- v. 50% 20 = _____
(a) 10 (b) 20
(c) 2 (d) 30
- vi. The following loop is exist controlled loop :
(a) for (b) nested for
(c) do...while (d) while
- vii. We can access the 3rd element of the array `int arr[] = {12, 25, 5, 10, 12};` by using:
(a) `arr[0]` (b) `arr[5]`
(c) `arr[3]` (d) `arr[2]`
- viii. Suppose integer pointer **ptr** points to address 1000. What will it point to after **ptr++**?
(a) 1002 (b) 1010
(c) 1001 (d) 1008
- ix. Which of the following is not a component of user defined function?
(a) Prototype (b) Definition
(c) Call (d) `main()`
- x. Which of the following is a collection of elements of different data types?
(a) char (b) string
(c) structure (d) array

Answer/Write short notes on any FIVE of the following:

(5x3=15)

2. Briefly explain the history of C.
3. Explain any three basic data types in C.
4. What is the use of printf() ? Write its syntax. Give an example.
5. Explain logical operators with an example for each.
6. Explain if..else with its syntax and an example.
7. What is an array? Explain how to declare one dimensional array with an example.
8. What is a pointer? Mention any two advantages of using pointers.
9. Write a short note on Structures.

Answer any THREE questions from the following:

(3x5=15)

10. Explain the structure of C program with a neat block diagram.
11. What is the use of control string in scanf(). Explain any four control strings with an example. <https://www.kuvempuonline.com>
12. What is the use of looping statement? Explain for loop with an example.
13. Explain Two Dimensional array with an example.
14. What is a function in C? Explain different categories of user defined functions.

Answer the following:

(2x10=20)

15. a) Explain the compilation process in C with a neat flowchart. **(10 marks)**

OR

- b) i. What is an Operator? Explain Relational Operators. **(5 marks)**
ii. Write a note on Type Conversion. **(5 marks)**
16. a) i. Explain how to access address and value of a variable using pointers. **(5 marks)**
ii. Mention the needs for user defined function. **(5 marks)**

OR

- b) Write a C Program to demonstrate the use of structures. **(10 marks)**

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