

(6 pages)

Reg. No. :

Code No. : 21017

Sub. Code : GMCA 11

B.C.A. (CBCS) DEGREE EXAMINATION,
NOVEMBER 2015.

First Semester

Computer Applications – Main

PROGRAMMING IN C

(For those who joined in July 2012 and afterwards)

Time : Three hours

Maximum : 75 marks

PART A — (10 × 1 = 10 marks)

Answer ALL questions.

Choose the correct answer :

1. The size of int data type is _____ bytes

- (a) 2 (b) 4
(c) 8 (d) 16

2. Every statement in a C program must end with

- (a) ; (b) :
(c) , (d) .

3. Each C program must use the _____ header file

- (a) conio.h (b) stdio.h
(c) process.h (d) math.h

4. The default return type of function is

- (a) float (b) char
(c) int (d) string

5. _____ is a collection of elements of same type

- (a) Structure (b) Union
(c) Array (d) Data type

6. The range of array index is

- (a) 1 to n (b) 0 to n
(c) 0 to n-1 (d) 1 to n-1

7. _____ is a collection of characters

- (a) Database (b) File
(c) String (d) None of these



8. The strcmp function returns _____ value
- (a) float (b) char
(c) int (d) string
9. A pointer variable should declared with the symbol _____
- (a) @ (b) #
(c) ! (d) *
10. Passing pointer as an argument is called _____
- (a) Call by value (b) Call by address
(c) Call by reference (d) Both (a) and (b)

PART B — (5 × 5 = 25 marks)

Answer ALL questions, choosing either (a) or (b).

Each answer should not exceed 250 words.

11. (a) Discuss data types in C.

Or

- (b) Write short notes on type conversion.

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12. (a) Explain while statement with an example.

Or

- (b) Write a C program to find the simple and compound interest.

13. (a) What is an array? Discuss its types.

Or

- (b) Write a C program to find the sum and average of an array.

14. (a) Explain gets and puts function.

Or

- (b) Write a C program to find the reverse of a string.

15. (a) Explain generic pointers.

Or

- (b) Discuss pointers to pointers.

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[P.T.O.]



PART C — (5 × 8 = 40 marks)

Answer ALL questions, choosing either (a) or (b).

Each answer should not exceed 600 words.

16. (a) Explain various operators in C.

Or

- (b) Explain all input statements in C.

17. (a) Write a C program to find the biggest among three numbers using if else statement.

Or

- (b) Discuss types of storage classes.

18. (a) Write a program to subtract two matrices using array.

Or

- (b) Write a program to transpose a matrix.

19. (a) Explain any four string functions.

Or

- (b) Write a C program to sort the names in ascending order.

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20. (a) Explain pointer arithmetic with suitable example.

Or

- (b) Write a C program to pass pointers as arguments.
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