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Reg. No. :

Code No. : 41356 E Sub. Code : SMCA 11

B.C.A. (CBCS) DEGREE EXAMINATION,
NOVEMBER 2018.

First Semester

Computer Applications — Main

PROGRAMMING IN 'C'

(For those who joined in July 2017 onwards)

Time : Three hours

Maximum : 75 marks

PART A — (10 × 1 = 10 marks)

Answer ALL questions.

Choose the correct answer :

1. The increment and decrement operators can be used _____ type.
(a) int, long (b) short
(c) float (d) both (a) and (b)
2. Every statement in a C program must end with
(a) ; (b) :
(c) , (d) .

3. _____ statement branch unconditionally one point to another in a program.
(a) abort (b) if
(c) switch (d) goto
4. Which is exit control loop?
(a) for (b) do..while
(c) while (d) none
5. Array is _____ data type.
(a) fundamental (b) user-defined
(c) derived (d) none
6. The strcmp function returns _____ when two strings are equal.
(a) null (b) zero
(c) true (d) positive
7. _____ reduce the length and complexity of program.
(a) array (b) union
(c) structure (d) function

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8. A main program can have at most _____ number of functions.

- (a) 2 (b) 5
(c) 10 (d) no limit

9. Pointer declaration should start with the symbol

- (a) # (b) @
(c) & (d) *

10. In pointer the operator * indicates _____ of variable

- (a) address (b) location
(c) content (d) none of these

PART B — (5 × 5 = 25 marks)

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

Each answer should not exceed 250 words.

11. (a) Write a C program to check whether the given year is LEAP or not.

Or

(b) Discuss data types in C.

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12. (a) Explain conditional operator in C.

Or

(b) Explain any two forms of if statement.

13. (a) Write a C program to check whether two string are equal or not.

Or

(b) Write a C program to find the smallest element in an array.

14. (a) Write a C program to find the factorial of given number using recursion.

Or

(b) How to declare and call a function in C?

15. (a) Explain the concept of Pointers in C

Or

(b) Write a C program to implement call by value.

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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 all operators in C.

Or

- (b) Write a C program to check whether the given number is Armstrong or not.

17. (a) Write a C program to find the sum of first N Even natural numbers using while statement.

Or

- (b) Explain switch statement with suitable example.

18. (a) Write a C program to find the sum of diagonals of a matrix.

Or

- (b) Explain any five string handling functions.

19. (a) Write a C program to implement user defined functions.

Or

- (b) Explain the scope and life time of variables.

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20. (a) Explain array of pointers with suitable example.

Or

- (b) Write a program using pointers to determine the length of a character string.
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