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**Reg. No. :** .....

**Code No. : 20688 E      Sub. Code : SMCA 11/  
AMCA 11**

B.C.A. (CBCS) DEGREE EXAMINATION, APRIL 2021.

First Semester

Computer Application — Core

PROGRAMMING IN C

(For those who joined in July 2017 onwards)

Time : Three hours

Maximum : 75 marks

PART A — ( $10 \times 1 = 10$  marks)

Answer ALL questions.

Choose the correct answer :

1. In C language, all keyword must be in \_\_\_\_\_.
  - (a) Upper case
  - (b) Lower case
  - (c) Both upper and lower
  - (d) Special characters

2. C is a \_\_\_\_\_
- (a) High level language
  - (b) Low level language
  - (c) Assembly level language
  - (d) All the above
3. The essential functions of computer programming is \_\_\_\_\_.
- (a) Reading
  - (b) Processing
  - (c) Writing
  - (d) All the above
4. \_\_\_\_\_ function call is used to carry output operation.
- (a) scanf
  - (b) printf
  - (c) getchar
  - (d) main
5. The number of element present in array c[3][3] is \_\_\_\_\_.
- (a) 3
  - (b) 9
  - (c) 10
  - (d) 6

6. Array can be initialized during \_\_\_\_\_.  
(a) run time (b) compile time  
(c) Both (a) and (b) (d) None
7. The strcmp( ) function \_\_\_\_\_ two strings.  
(a) copy (b) cut  
(c) carry (d) compare
8. The process of combining two strings is \_\_\_\_\_.  
(a) pointer (b) functions  
(c) concatenation (d) both (a) and (b)
9. Variable that are active throughout the program are called \_\_\_\_\_ variable.  
(a) External (b) Internal  
(c) String (d) Constant
10. The data structure of a file is defined using \_\_\_\_\_.  
(a) FILE (b) FILES  
(c) FP (d) FF

PART B — ( $5 \times 5 = 25$  marks)

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

Each answer should not exceed 250 words.

11. (a) What is the purpose of `scanf()` function?  
Or  
(b) Discuss the structure of C program.
12. (a) Discuss about formatted input.  
Or  
(b) Briefly discuss about `if...else` statement.
13. (a) Write a C program to find smallest among N numbers.  
Or  
(b) What is an array? Explain.
14. (a) Write the scope and lifetime of a variable.  
Or  
(b) Write a program to find the factorial of a number using function.
15. (a) Discuss about pointer variables.  
Or  
(b) Explain function pointer with example.

PART C — ( $5 \times 8 = 40$  marks)

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

Each answer should not exceed 600 words.

16. (a) Explain about `gets()` and `puts()` functions.

Or

- (b) Explain structure of a C program with example.

17. (a) Discuss the function and its concepts.

Or

- (b) Discuss about nested if loop with example.

18. (a) Write a program to find the sum of two matrices.

Or

- (b) Explain about string functions.

19. (a) Explain recursion with example.

Or

- (b) Explain in detail about structures.

20. (a) Describe function pointer.

Or

(b) Write a program alphabetical order using character strings.

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