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

**Code No. : 20412 E      Sub. Code : SMCA 11/  
AMCA 11/CMCA11**

B.C.A. (CBCS) DEGREE EXAMINATION,  
NOVEMBER 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 × 1 = 10 marks)

Answer ALL questions.

Choose the correct answers :

1. All the keywords in C are in —————
  - (a) Lowercase letter
  - (b) Uppercase letters
  - (c) Camel case letters
  - (d) None of the mentioned

2. Which of the following is true for variable in C?
- (a) They can contain alpha numeric character
  - (b) It is not an error to declare
  - (c) Variable names cannot start with a digit
  - (d) Variable can be of any length
3. Which of the following cannot be used as LHS of the expression in for (exp 1; exp 2; exp 3)?
- (a) Variable
  - (b) Function
  - (c) Typedet
  - (d) Macros
4. What is the output of Cprogram?

```
int main()  
{  
    int K;  
    for (K = 1; K <=5; K++);  
    {  
        printf("%d", K);  
    } return o;  
}
```

- (a) 12345
- (b) 1234
- (c) 6
- (d) 5

5. How do you initialize an array in C?
- (a) `intarr[3] = (1, 2, 3);`
  - (b) `intarr(3) = {1, 2, 3};`
  - (c) `int arr [3] = {1, 2, 3};`
  - (d) `intarr(3) = (1, 2, 3);`
6. If the two strings are identical, then `strcmp( )` function returns \_\_\_\_\_
- (a) -1
  - (b) 1
  - (c) 0
  - (d) yes
7. Any C program \_\_\_\_\_
- (a) must contain atleast one function
  - (b) need not contain any function
  - (c) needs input data
  - (d) none
8. An array element are always stored in \_\_\_\_\_ memory locations.
- (a) sequential
  - (b) random
  - (c) sequential and random
  - (d) none

9. The operator used to get value at address stored in a pointer variable is
- (a) \*                                      (b) &  
(c) &&                                      (d) ||
10. What is (void\*)0?
- (a) Representation of null pointer  
(b) Representation of void pointer  
(c) Error  
(d) None of the above

PART B — ( $5 \times 5 = 25$  marks)

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

Each answer should not exceed 250 words.

11. (a) Write a note on basic structure of C programs.

Or

- (b) Write a short notes on Keywords and identifies.

12. (a) Discuss about relational and assignment operator.

Or

- (b) Explain about IFELSE statement.

13. (a) Discuss the two dimensional array.

Or

- (b) Discuss about reading string from terminal.

14. (a) Explain about no argument and no return values in functions.

Or

- (b) What is recursion? Explain it.

15. (a) What is pointer? Explain about array pointer.

Or

- (b) Explain about pointer on pointer.

PART C — ( $5 \times 8 = 40$  marks)

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

Each answer should not exceed 600 words.

16. (a) Write a program that prints the even number from 1 to 100.

Or

- (b) Explain about various types of operators with one example.

17. (a) What are the decision making statement? Explain it briefly.

Or

- (b) Discuss about loop operations in C.

18. (a) Write a program for ascending order using array in C.

Or

- (b) Explain about declaring and initializing string variables in C.

19. (a) Briefly explain about category of function in C.

Or

- (b) Write a program for nesting of functions in C.

20. (a) Write a program to illustrate the use of pointers in arithmetic operations.

Or

- (b) Discuss about pointer and character as a string with suitable example.

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