

(6 pages)

Reg. No. : .....

Code No. : 20419 E      Sub. Code : CMCA 11

B.C.A. (CBCS) DEGREE EXAMINATION,  
NOVEMBER 2022.

First Semester

Computer Application — Core

PROGRAMMING IN C

(For those who joined in July 2021 onwards)

Time : Three hours

Maximum : 75 marks

PART A — (10 × 1 = 10 marks)

Answer ALL questions.

Choose the correct answer :

1. All keywords in C are in \_\_\_\_\_  
(a) LowerCase letters    (b) UpperCase letters  
(c) CamelCase letters    (d) None of the above
2. What is the precedence of arithmetic operators  
(from highest to lowest)?  
(a) %, \*, /, +, -                      (b) %, +, /, \*, -  
(c) +, -, %, \*, /                      (d) %, +, -, \*, /

3. Which among the following is the odd one out?  
(a) printf                      (b) fprintf  
(c) putchar                      (d) scanf
4. The keyword 'break' cannot be simply used within \_\_\_\_\_  
(a) do-while                      (b) if-else  
(c) for                      (d) while
5. Comment on an array of the void data type  
(a) It can store any data-type  
(b) It only stores element of similar data type to first element  
(c) It acquires the data type with the highest precision in it  
(d) You cannot have an array of void data type
6. Which of the following function compares 2 strings with case-insensitively?  
(a) strcmp(s, t)                      (b) strcmpcase(s, t)  
(c) strcasecmp(s, t)                      (d) strchr(s, t)

7. Which of the following is a correct format for declaration of function?
- return-type function-name(argument type);
  - return-type function-name(argument type) { }
  - return-type (argument type) function-name;
  - all of the above
8. The value obtained in the function is given back to main by using \_\_\_\_\_ keyword.
- return
  - static
  - new
  - volatile
9. Which is the correct way to declare a pointer?
- int\_ptr;
  - int\*ptr;
  - \*int ptr;
  - none of the above
10. What is the output of the following code?
- ```
int main()
{
    char *ptr = "GeeksQuiz";
    printf("%cn", *&*ptr);
    return 0;
}
```
- Compiler error
  - Garbage value
  - Runtime error
  - G

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#### PART B — (5 × 5 = 25 marks)

Answer ALL questions, choosing either (a) or (b).  
Each answer should not exceed 250 words.

11. (a) What is a variable in C language? How will you declare and initialize a variable?
- Or
- (b) Write about arithmetic operators in C.
12. (a) Explain scanf ( ) statement with an example.
- Or
- (b) Explain while statement with suitable example.
13. (a) Explain array declaration, initialization with an example.
- Or
- (b) How to declare and initialize string variables in C?
14. (a) Explain function declaration, function call and function definition with an example.
- Or
- (b) Write about the need for user-defined functions.

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15. (a) What is a pointer? Write the features of a pointer.

Or

- (b) Write about accessing a variable through its pointer.

PART C — (5 × 8 = 40 marks)

Answer ALL questions, choosing either (a) or (b)  
Each answer should not exceed 600 words.

16. (a) Explain the structure of a C program.

Or

- (b) Explain unary and ternary operators with an example.

17. (a) Discuss about switch statement with an example.

Or

- (b) Explain for loop with suitable C program.

18. (a) Explain multidimensional array in detail.

Or

- (b) Explain string handling functions.

19. (a) Discuss in detail about call by value and call by reference.

Or

- (b) Write a program to calculate the standard deviation using function.

20. (a) With suitable example explain different arithmetic operations on pointers.

Or

- (b) Explain how pointers are used as function arguments.
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