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Reg. No. :

Code No. : 10475 E Sub. Code : CMCA 11

B.C.A. (CBCS) DEGREE EXAMINATION,
APRIL 2023

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. Enum types are processed by _____
- (a) Compiler
 - (b) Preprocessor
 - (c) Linker
 - (d) Assembler

2. Which of the following statement is false?
- (a) Constant variables need not be defined as they are declared and can be defined later
 - (b) Global constant variables are initialized to zero
 - (c) Constant keyword is used to define constant values
 - (d) You cannot reassign a value to a constant variable
3. What is the default return-type of getchar()?
- (a) char
 - (b) int
 - (c) char *
 - (d) reading character doesn't require a return-type
4. $y = (x > 5 ? 3 : 4);$
- The above statement is a
- (a) Compilation operator
 - (b) Algebraic operator
 - (c) Binary operator
 - (d) None



5. Which of the following is the correct way to declare a multidimensional array in Java?
- (a) `int[] arr;` (b) `int arr[][];`
 (c) `int[][]arr;` (d) `int[][][]arr;`
6. What will `strcmp()` function do?
- (a) compares the first n characters of the object
 (b) compares the string
 (c) undefined function
 (d) copies the string
7. What are the types of functions in C Language?
- (a) Library Functions
 (b) User Defined Functions
 (c) Both Library and User Defined
 (d) None of the above
8. Choose correct statements about C Language Pass By Value.
- (a) Pass By Value copies the variable value in one more memory location
 (b) Pass By Value does not use Pointers
 (c) Pass By Value protects your source or original variables from changes in outside functions or called functions
 (d) All the above

9. How can you write `a[i][j][k][l]` in equivalent pointer expression?
- (a) `((***(a+i)+j)+k)+l`
 (b) `((**(* (a+i)+j)+k)+l)`
 (c) `(*(*(* (a+i)+j)+k)+l)`
 (d) `*(*(*(* (a+i)+j)+k)+l)`
10. Address stored in the pointer variable is of type _____.
- (a) Integer (b) Float
 (c) Array (d) Character

PART B — (5 × 5 = 25 marks)

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

Each answer should not exceed 250 words.

11. (a) Explain uses of variables in detail.
 Or
 (b) Discuss about evaluation of expressions.
12. (a) Write about while statement.
 Or
 (b) Illustrate on formatted output.



13. (a) Expound reading string from terminal with necessary theory.

Or

(b) Explain two dimensional arrays with suitable example.

14. (a) Discuss about recursion.

Or

(b) Explain user defined functions with necessary theory.

15. (a) Give a clear view on pointer expressions.

Or

(b) Discuss about pointer to 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 briefly about operators.

Or

(b) Discuss about constants and its types.

17. (a) Explain IF statements in detail.

Or

(b) Write a C program to implement for loop.

18. (a) Give a clear view on arithmetic operations on characters.

Or

(b) Create a C program to implement an array.

19. (a) Explain arguments and its types in functions.

Or

(b) Discuss about nesting of functions.

20. (a) Write a C program to implement pointer.

Or

(b) Illustrate scale factors in pointers with necessary theory.

