(6 pages)   Reg. No. : ....

Code No. : 40656 E   Sub. Code : SMCA 11

B.C.A. (CBCS) DEGREE EXAMINATION,
NOVEMBER 2019.

First Semester

Computer Application – Core

PROGRAMMING IN C

(For those who joined in July 2017 onwards)

Time : 3 hours   Maximum : 75 marks

PART A — (10 × 1 = 10 marks)

Answer ALL the questions.

Choose the correct answer :

1. Which is valid C expression?

    (a) int my_num = 1,00,000;

    (b) int my_num = 100000;

    (c) int num = 1000;

    (d) int $num = 10000;

2. Which of the following is not a valid variable name declaration?

    (a) float PI = 3.14;   (b) double PI = 3.14;

    (c) int PI = 3.14;   (d) # define PI = 3.14;

3. The operator "- -" is known as————operator.

    (a) decrement   (b) increment

    (c) increment 1   (d) decrement 1

4. The operator "++" is known as————operator.

    (a) decrement   (b) increment

    (c) increment 1   (d) decrement 1

5. How to read a single character from the terminal, using the function is ————.

    (a) getchar   (b) putchar

    (c) char   (d) int

6. The ————function joins two strings together.

    (a) strcmp   (b) strcpy

    (c) strcat   (d) strlen

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7. _____ function can be used to read a single character.

(a) getch ( )

(b) return

(c) putch ( )

(d) getch

8. Printf and scanf belongs to the category of functions.

(a) library

(b) functions

(c) user defined

(d) multi

9. What type of initialization is needed for the segment "ptr[3] = '3';" to work?

(a) char *ptr = "Hello!";

(b) char ptr[ ] = "Hello!";

(c) both char *ptr = "Hello!"; and char ptr[ ] = "Hello!";

(d) none of the mentioned

10. Which is an indirection operator among the following?

(a) &

(b) *

(c) ->

(d) .

PART B — (5 × 5 = 25 marks)

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

Each answer should not exceed 250 words.

11. (a) Write about keywords and Identifiers.

Or

(b) Explain the basic structure of C program.

12. (a) Write short notes on the if else statement with example.

Or

(b) Explain do...while statement with example.

13. (a) Write a notes on fundamental types of arrays.

Or

(b) What is strcmp? Explain it.

14. (a) Write a simple program to no arguments but return a value.

Or

(b) Write short notes on category of functions.

15. (a) What is pointer Explain with pointer expression.

Or

(b) Write short notes on declaring pointer variables.

PART C — (5 × 8 = 40 marks)

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

Each answer should not exceed 600 words.

16. (a) What do you mean by data types? How many data types does C language consist?

Or

(b) Write a program to perform basic arithmetic operation using arithmetic operators.

17. (a) Write a program to print sum of digits of a number using modulus operator.

Or

(b) What are loop control structures? Explain for loop, while loop and do-while loop with their syntax.

18. (a) Define 2-D array with its syntax and explain how to initialize 2-D array

Or

(b) What ate string handlings functions? Explain all with their uses.

19. (a) Define categories of functions and explain any one of them

Or

(b) Explain a multi function program with a flowchart and one simple program.

20. (a) Explain pointer and character string with suitable example.

Or

(b) Write a program to print of a address of a variable along with its value.

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