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Reg. No. : .....

**Code No. : 20618 E    Sub. Code : SNCS 4 B/  
SNSE 4 B**

U.G. (CBCS) DEGREE EXAMINATION, APRIL 2021.

Fourth Semester

Computer Science/Software Engineering

Non-Major Elective — 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 answer :

1. \_\_\_\_\_ is the special function used by the C, to tell the computer where the program starts.  
(a) void ( )                      (b) cin  
(c) main ( )                      (d) count ( )
2. Every statement in C end with \_\_\_\_\_.  
(a) semicolon                      (b) colon  
(c) comma                          (d) Deriod

3. If  $\text{flag} = (x < 0) ? 0 = 1$  and if  $x = 0$ , the value of flag is \_\_\_\_\_.
- (a) 0
  - (b) 1
  - (c) 2
  - (d) 3
4. The unconditional control statement in C is \_\_\_\_\_.
- (a) goto
  - (b) if
  - (c) for
  - (d) none
5. The \_\_\_\_\_ of loops is not allowed in C.
- (a) Nesting
  - (b) Intersection
  - (c) Skipping
  - (d) None
6. Which one of the following is a valid statement?
- (a) `int a(10)`
  - (b) `float b [10,10]`
  - (c) `char city [10]`
  - (d) `int total (10,10)`
7. The general form of declaration of string variable is
- (a) `string – name [size]`
  - (b) `char string – name[size]`
  - (c) `char [size]`
  - (d) `char string – name (size)`

8. `x = a; print f ("% d", x)` will display \_\_\_\_\_  
on the screen
- (a) `x`                      (b) `a`  
(c) `97`                      (d) `none`
9. A variable declare inside a function is called \_\_\_\_\_.
- (a) `global`                      (b) `local`  
(c) `static`                      (d) `none`
10. The mathematical functions are found in
- (a) `conio - h`                      (b) `string -h`  
(c) `math.h`                      (d) `none`

PART B — (5 × 5 = 25 marks)

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

Each answer should not exceed 250 words.

11. (a) Write short notes on operators in C.
- Or
- (b) Define variables? How they are declared and initialized?
12. (a) Explain if statement with example.
- Or
- (b) Describe the difference between break and continue statement in C.

13. (a) Explain For statement with example.

Or

(b) Write a program to add the numbers stored in one dimensional array.

14. (a) How will you initialize a string variable?

Or

(b) How will you put two strings together?

15. (a) Explain the general form of C functions with eg?

Or

(b) Write a C program to find the biggest of three numbers using function.

PART C — (5 × 8 = 40 marks)

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

Each answer should not exceed 600 words.

16. (a) Explain various types of constants in C.

Or

(b) Explain data types in C.

17. (a) Describe I/O statements in C.

Or

(b) Write the syntax and flow chart for Else- If Ladder statement with example.

18. (a) Explain while and do-while statement in C.

Or

(b) Write a C program to evaluate  $1 + x + x^2 + \dots + x^n$  using control statements.

19. (a) Explain about any three string handling function in C.

Or

(b) Write a C program to a string from the terminal.

20. (a) Describe various categories of functions in C.

Or

(b) Write a program to sort an array of integers using function.

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