843 Register No.:

April 2018

Time – Three hours
(Maximum Marks: 75)

[N.B: (1) Q.No. 8 in PART – A and Q.No. 16 in PART – B are compulsory. Answer any FOUR questions from the remaining in each PART – A and PART – B

(2) Answer division (a) or division (b) of each question in PART – C.

(3) Each question carries 2 marks in PART – A, 3 marks in Part – B and 10 marks in PART – C.]

PART – A

1. What do you mean by conditional operator?
2. Write any two advantages of built-in function.
3. What is REALLOC( ) ?
4. Write a 'C' program to add the given three numbers.
5. Define 'C' character set.
6. Comment on two dimensional arrays.
7. Evaluate the following expression $5 * (8 + 5) - 4 * 7$
8. What are the symbols used for flowchart notation?

PART – B

9. Discuss briefly about program execution process.
10. Write the syntax of the switch case statement with an example.
11. List out the functions used for reading and writing the string.
12. What is structure? Discuss structure within structure.
13. Define identifiers and variables.
14. How to initialise the values to the structure variable? Explain with an example.
15. Write a 'C' program to find the greatest number among two numbers using conditional operator.
16. Write a 'C' program to find the factorial of 'n' numbers.

PART – C

17. (a) Discuss in detail about the program development cycle.

(Or)

(b) (i) Explain in detail about the constants with example.
(ii) Discuss briefly about compile, link and run a program.

18. (a) Explain formatted and unformatted input and output statements with example.

(Or)

(b) (i) Discuss the different types of operators with example.
(ii) Explain looping statements with example.

19. (a) Define function. Describe the categories of function.

(Or)

(b) (i) Explain briefly about one dimensional array with an example.
(ii) Write a 'C' program to read two string constants into S1 and S2. Compare whether they are equal or not. If they are not, join them together.

20. (a) Discuss in detail about the structures.

(Or)

(b) (i) Explain the following: (1) MALLOC( ) (2) CALLOC( )
(ii) Compare structure and union.

21. (a) Write a 'C' program to find the equivalent resistance of three resistances connected in series and in parallel.

(Or)

(b) (i) Write a 'C' program to find the sum of series using *while loop*.
(ii) Write a 'C' program to swap the values of two variables.
