582 Register No.: _____

April 2019

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. Write any two advantages of flowchart.
2. Differentiate variable and constant.
3. Write the syntax for *while* loop.
4. Give an example for pre-processor statement.
5. Give an example for math functions.
6. What is recursion?
7. What is a pointer?
8. How will you declare the string?

PART – B

9. What are the features of a C program?
10. Write an expression for $C = \frac{a \times b}{c - d}$.
11. Differentiate while loop and *do-while* loop.
12. What is the function of strlen()?
13. Define storage class.
14. Declare an one dimensional array to store 10 integer values.
15. Write about function arguments.
16. Write a statement to close file.

[Turn over.....

PART – C

17. (a) Explain the structure of a C program with a diagrammatic representation of program execution process.

(Or)

(b) Explain the formatted input and formatted output statements.

18. (a) Write any C program that implements the concept of switch statement.

(Or)

(b) Explain the string handling functions strlen(), strcat(), strcmp()) in detail with examples.

19. (a) Write any program that implements the concepts of function call by value.

(Or)

(b) How structure is defined? How it is initialised? Explain the concept of array within structures.

20. (a) Write any program that implements the concepts of pointers.

(Or)

(b) Explain the allocating a block memory and altering the size of a block in detail.

21. (a) Explain the error handling functions during I/O operations.

(Or)

(b) Explain command line arguments with an example.
