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Register No.:	
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April 2018

<u>Time - Three hours</u> (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. Define algorithm.
- 2. List the data type qualifiers available in C.
- 3. Differentiate while and do..while statements.
- 4. List any two mathematical functions available in C
- 5. What is union? Give an example.
- 6. Define file and list file operations.
- 7. List the functions used in dynamic memory allocation.
- 8. How a pointer variable is defined and declared?

PART - B

- 9. Draw the flow chart to calculate area of a rectangle.
- 10. Explain conditional operator with an example.
- 11. How to declare and initialise a 2-D array?
- 12. Explain the syntax of setcolor().
- Explain file inclusion directive with an example.
- 14. Explain the syntax of calloc() function with an example.
- 15. Explain fprint() with an example.
- 16. How pointer to a structure variable is declared? Explain.

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[Turn over.....

PART - C

17. (a) Discuss the execution process of a 'C' program with a flow chart.

(Or)

- (b) Explain the evaluation of an arithmetic expression with an example.
- (a) Write a 'C' program to print months of a year using switch...case expression. (if input=1, output=JANUARY, if input=2, output=FEBRURAY,...)

(Or)

- (b) Write a 'C' program to add two 2x2 matrices.
- 19. (a) Explain the character oriented functions available in 'C'.

(Or)

- (b) Explain the two types of function call:(i) Call by value(ii) Call by reference.
- 20. (a) Write a 'C' program,
 - (i) To display the contents of an array using pointer.
 - (ii)To add the contents of an array using pointer.

(Or)

- (b) Write short notes on:
 - (i) Static memory allocation.
 - (ii) Dynamic memory allocation.
- 21. (a) Discuss the input and output functions on files.

(Or)

(b) Write a 'C' program to subtract two numbers using command line arguments.

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