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Register No.:	

October 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. J

PART - A

- 1. What is flowchart? Draw any two symbols with their meaning.
- 2. What is character constant? Give an example.
- 3. List the arithmetic operators with an example.
- 4. Write the syntax of while statement.
- 5. What is array?
- 6. What are built-in functions? Give an example.
- 7. What is dynamic memory allocation?
- 8. Write two differences between structure and union.

PART - B

- 9. What is algorithm? Write the properties of algorithm.
- 10. State the use and syntax of declaring variables.
- 11. Write the use, syntax and example of gets() functions.
- 12. State the use of abs(), clrscr() and getch() functions.
- 13. What are formal and actual arguments?
- 14. Which operator is used to access the structure member? Write the syntax.
- 15. What is array within structure? Give an example.
- 16. Write the use and syntax of break statement.

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PART - C

17. (a) (i) List any five features of C language.

(ii) Explain the structure of C program.

(Or)

- (b) Explain program development cycle with a diagram.
- 18. (a) (i) Explain about if else statement with an example.
 - (ii) Explain about for loop with syntax and an example.

(Or)

- (b) Explain increment, decrement operators, conditional operator and bit wise operators with examples.
- 19. (a) (i) Write the syntax and example to declare and initialise two dimensional arrays.
 - (ii) Explain about any two storage classes.

(Or)

- (b) Explain the functions used for writing strings with syntax and example.
- 20. (a) (i) Explain structure within structure with an example.
 - (ii) What is union? Write the syntax and example to define union.

(Or)

- (b) Explain the functions used for dynamic memory allocation with an example.
- 21. (a) (i) Write C language program to swap the values of two variables.
 - (ii) Write C language program to find the resonant frequency of RLC circuit.

(Or)

(b) Write C language program to draw the symbol of NPN transistor using graphics.

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