C   Reg. No. : | | | | | | | | | | | |

Answer All Questions

PART A - (5x 1 = 5 Marks)

1. Which of the following is not a valid C variable name?   CO1- U

   (a) int number;   (b) float rate;   (c) int variable_count;   (d)int $main;

2. Which of the following looping statements end with a semicolon?   CO2- U

   (a) While   (b) do while   (c) for   (d) None of these

3. An array of pointers is same as _____   CO3- U

   (a) pointers to array   (b) pointers to pointers

   (c) pointers to function   (d) pointers to structure

4. The Default parameter passing mechanism is called as   CO4- U

   (a) Call by value   (b) Call by Reference   (c) Call by Address   (d) Call by Name

5. Which of the following functions are used to write an integer to a file?   CO5- U

   (a) fprintf()   (b) putw()   (c) putc()   (d) puts()

PART – B (5 x 3= 15Marks)

6. Differentiate character constant and string constant with example.   CO1- U

7. What is the difference between for and while statement?   CO2- U

8. Write any four features of an array.   CO3- U

9. What is meant by recursion? CO4- U

10. Write the two ways of accessing file in C. CO5- U

PART – C (5 x 16= 80 Marks)

11. (a) Write a C program to compute the volume of cylinder with diameter d and height h and print diameter, height and the volume.   CO1-App   (16)

Or

(b) Write a C program to evaluate the net salary of an employee ε following
Constraints:
DA : 12% of Basic salary
HRA : 20% of Basic salary
TA : 15% of Basic salary
Tax cuts – a) PF :14% of Basic salary and b) IT: 15% of Basic sala
Net Salary = Basic Salary + DA + HRA + TA– (PF + IT)   CO1-App   (16)

12. (a) Describe the different forms of if statement in C .Write a C Program using if then else ladder condition.   CO2-App   (16)

Or

(b) Explain in detail about 'for' statement with example and also discuss flow of execution.   CO2-U   (16)

13. (a) Develop a C Program to calculate the average marks of the class using Arrays?   CO3-App   (16)

Or

(b) Develop a C Program to Subtraction of two Matrix Using two-dimensional Arrays?   CO3-App   (16)

14. (a) Explain in detail about structure with example?   CO5-U   (16)

Or

(b) Explain in detail about function prototype with example?   CO4-U   (16)

15. (a) Write a program to illustrate the use of Random access file?   CO6-App   (16)

Or

(b) Write a program to illustrate the use of Sequential access file?   CO6-App   (16)