Question Paper Code : 91659

B.E./B.Tech. DEGREE EXAMINATIONS, NOVEMBER/DECEMBER 2019
First Semester
Civil Engineering
GE 6151 – COMPUTER PROGRAMMING
(Common to all Branches)
(Regulations 2013)
(Also Common to : PTGE 6151 – Computer Programming for B.E. (Part-Time) –
First Semester – Civil Engineering – Regulations – 2014)

Time : Three Hours

Maximum : 100 Marks

Answer ALL questions.

PART – A

(10×2=20 Marks)

1. What is super computer ? Give an example.

2. Define pseudo code.

3. List the types of operators in C.

4. Write a for loop statement to print numbers from 10 to 1.

5. What is an array ?

6. Define string literal. Give examples.

7. Write the syntax of function. Write about the components of it.

8. What is dynamic memory allocation ? List the commands used for dynamic memory allocation.

9. How will you define a structure in 'C' ? What is the use of it ?

10. List the preprocessor directives available in C.

PART – B   (5×16=80 Marks)

11. a) Write in detail about the various generations of computers.   (16)

        (OR)

    b) Explain about flowchart, algorithm and Pseudo code with example.   (16)

12. a) i) Write simple programs to demonstrate the arithmetic and logical
            operators in C.   (10)

        ii) Discuss the basic data types in C.   (6)

        (OR)

    b) i) Describe the various input and output statements in C with suitable
            examples.   (6)

        ii) Write a C program for the print following pattern: (10)
            1
            1 2
            1 2 3
            1 2 3 4

13. a) i) Write a C program to add two matrices.   (10)

        ii) Write a C program to search a given number in an array of elements.   (6)

        (OR)

    b) i) Write a C program to arrange the given 'n' numbers in ascending order.   (10)

        ii) Explain the various string handling functions in 'C'.   (6)

14. a) Explain the concept of parameter passing by :

            i) value and   (8)

            ii) reference between functions in detail with example.   (8)

        (OR)

    b) What are Pointers ? Explain in detail about the declaration and usage of
        Pointers. Write sample program.   (16)

15. a) i) What is Union in 'C' ? Explain with example program in detail.   (8)

        ii) Write short notes on storage classes.   (8)

        (OR)

    b) Write a program to create students mark processing application using array
        of structures.   (16)

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