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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