Reg. No. | | | | | | | | | | | | |

Question Paper Code : 27268

B.E./B.Tech. DEGREE EXAMINATIONS, NOVEMBER/DECEMBER 2015

First Semester

Civil Engineering

GE 6151 : COMPUTER PROGRAMMING

(Common to all branches)

(Regulation : 2013)

Time : Three Hours **Maximum : 100 Marks**

Answer ALL questions.

PART – A (10 × 2 = 20 Marks)

1. What is a pseudo code ?
2. What is an algorithm ?
3. What is compilation process ?
4. Discuss the working modulo operator.
5. Declare a character array of size 5 and assign vowels to it.
6. Give some examples of string functions.
7. What is function definition ?
8. What is an address operator and indirection operator ?
9. Write a note on register storage class.
10. What is the use of #define pre-processor ?

PART – B (5 × 16 = 80 Marks)

11. (a) Explain in detail with block diagram about the digital computer organization and discuss the function of each block. **16**

OR

(b) Perform the following : **(4 × 4 = 16)**

(i) $(1011.11011)_2 = (\ )_{10}$

(ii) $(10111)_2 \times (1011)_2 = ?$

(iii) $(D8BC)_H = (\ ?\ )_2$

(iv) $(4871)_{10} = (\ ?\ )_8$

12. (a) What are the various operators available in C ? Discuss each one of them with suitable examples.

OR

(b) Explain in detail about various decision making structures available in C with illustrative examples.

13. (a) Write a C program for finding the largest element and smallest element in a matrix.

OR

(b) Write a C program to multiply two matrices.

14. (a) Discuss about call by value and call by reference with illustrations.

OR

(b) What is recursion ? Explain a recursive function with suitable example. Write a recursive function to find the factorial of a number.

15. (a) What is a structure ? Create a structure with data members of various types and declare two structure variables. Write a program to read data in to these and print the same.

OR

(b) Write short notes on : **(4 × 4 = 16)**

(i) Union

(ii) Static storage class

(iii) #include statement

(iv) #ifndef...#endif