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**Question Paper Code : 37007**

B.E./B.Tech. DEGREE EXAMINATION, JANUARY 2014.

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. List some important hardware and software technologies of fifth generation computers.
2. Write two characteristics of pseudocode.
3. What are various types of C operators?
4. Write a for loop statement to print numbers from 10 to 1.
5. Define array.
6. Name any two library functions used for string handling.
7. What is the need for functions?
8. What is the uses of pointers?
9. Write any two preprocessor directives in C.
10. Differentiate between structure and union.

PART B — (5 × 16 = 80 marks)

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

Or

- (b) Explain the basic computer organisation using a neat diagram. (16)

12. (a) Write about the need and types of looping statements in C language and discuss with examples. (16)

Or

- (b) Write about the need and types of branching statements in C language and discuss with examples. (16)

13. (a) (i) Write a C program to reverse a string. (8)  
(ii) Write a C program to print the Fibonacci series of a given number. (8)

Or

- (b) Write a C program to find the sum of two matrices. (16)

14. (a) Explain the following with suitable examples.  
(i) Function declaration (8)  
(ii) Call by reference, call by value. (8)

Or

- (b) (i) Explain function with and without arguments with example for each. (10)  
(ii) What is recursion? Give an example. (6)

15. (a) (i) What is storage class? List and explain with example. (8)  
(ii) Define and declare a structure to store date, which including day, month and year. (8)

Or

- (b) Write a C program to create mark sheet for students using structure. (16)