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## Question Paper Code : 57019

B.E./B.Tech. DEGREE EXAMINATION, MAY/JUNE 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.   Convert the binary number 110 100 111 101 to octal.

2.   Draw a flow chart to find biggest of two number.

3.   List different data types avilable in C.

4.   Write a C program to find factorial of a given number using iteration.

5.   Write example code to declare two dimensional array.

6.   List any four string handling functions.

7.   Define Recursion.

8.   What is the difference between pass by value and pass by reference?

9.   What is the purpose of Unions in C?

10.  What is the use of pre-processor directives?

PART B — (5 × 16 = 80 marks)

11.  (a)  (i)   Discuss about Generation of digital computer.          (10)

          (ii)  Draw a flow chart to find factorial of a number.          (6)

Or

     (b)  (i)   Explain the basic organisation of a computer.          (10)

          (ii)  Draw a flow chart to find sum first 100 natural numbers.          (6)

12. (a) (i) Write a program to check whether a given number is prime or not. (8)

   (ii) Write a C program to find sum of digits of an integer. (8)

Or

   (b) (i) Write a C program to find roots of a quadratic equation. (8)

   (ii) Differentiate entry and exit checked conditional constructs with an example. (8)

13. (a) (i) Explain the concept of pass by reference with suitable example. (8)

   (ii) Write a C program to find factorial of a number using recursion. (8)

Or

   (b) (i) Write a C program to swap the content of two variables using pointers. (8)

   (ii) Explain the use of pointers in arrays with suitable example. (8)

14. (a) Write a C program to arrange the numbers in ascending order. (16)

Or

   (b) Write a C program to subtract two matrices and display the resultant matrix. (16)

15. (a) Explain the concept of storage classes with suitable example. (16)

Or

   (b) Write a C program to store the employee information using structure and search a particular employee using Employee Number. (16)

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