Code: R7100307

R7

B.Tech I Year (R07) Supplementary Examinations, December 2012

COMPUTER PROGRAMMING

(Mechanical Engineering)

Time: 3 hours   Max Marks: 80

Answer any FIVE questions

All questions carry equal marks

*****

1   (a)   Explain various relational operators with suitable examples.
    (b)   Write and explain the structure of a C program.

2   (a)   Distinguish between while and do while loops.
    (b)   Write a C program to find the Fibonacci sequence of a number.

3   (a)   Define a function. Explain the various components of a function with an example.
    (b)   Explain the automatic and extern storage classes with examples.

4   (a)   What is an array? Explain the one dimensional arrays in detail.
    (b)   Write a C program to add two matrices.

5   (a)   Explain with a suitable example, how to assign and access the structure values.
    (b)   Give brief description about array of structures.

6   Explain the different file operations with their syntax and examples.

7   (a)   What is a stack? Explain the various methods of storing the stacks in memory.
    (b)   Give brief description about the bubble sort technique.

8   (a)   Define the following terms:
          (i) Node   (ii) Parent   (iii) Root   (iv) Height   (v) Degree.
    (b)   Explain the inorder tree traversal mechanism with suitable example.

*****