Code No: C1CS12-C1903

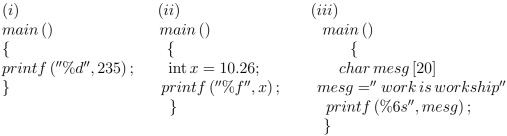
I B.Tech(ccc) Regular Examinations, December 2007 PROGRAMMING AND DATA STRUCTURES

(Common to Civil Engineering and Mechanical Engineering)

Time: 3 hours Max Marks:100

Answer any FIVE Questions All Questions carry equal marks

- 1. (a) What is a microprocessor? Give some examples? [5]
 - (b) Distinguish between the following: [15]
 - i. Line printer and Laser printer
 - ii. Floppy disk and Hard disk
 - iii. Address bus and Control bus
- 2. (a) Write the output of the following: [10]



- (b) Write a C program to accept your name, roll number, branch and percentage and display it in the required format. [10]
- 3. (a) What are storage classes? Explain with examples. [10]
 - (b) Write a user defined function to append two strings. [10]
- 4. (a) Write a C program to read integers from the file using getw() function. [10]
 - (b) Write a C program to write a string into a file using fputc() function. [10]
- 5. (a) Write a C Program to fill with diagonal lines the rectangle where the rectangle in defined with the vertices (75,75) (150,75), (150,150) and (75,150).
 - (b) Translate the above object vertically from bottom to top with an increment of 10 units at a time. [10+10]
- 6. What is Circular doubly linked list? Explain the various operations on Circular doubly linked lists with suitable algorithms. [20]
- 7. Write a program to convert a given prefix expression to postfix expression using stacks [20]
- 8. What is sorting? Explain about tree sorting technique with suitable examples. [20]
