M 21487

Reg. No. : .....

Name : .....

IV Semester B.Tech. (Reg./Sup./Imp. – Including Part-Time) Degree Examination, May 2012
(2007 Admn. Onwards)
PT 2K6/2K6 EE/EC/AEI 402 : COMPUTER PROGRAMMING

Time : 3 Hours Max. Marks : 100

Instruction *: Answer* ***all*** *questions.*

(8×5=40)

I. a) Write notes on the variables, expressions and assignments used in C with suitable examples.

b) Write notes on the different types of constants available in C with suitable examples for each.

c) Write notes on one dimensional and two dimensional array initialization, declaration, subscripting and usage in C with suitable examples.

d) With the help of an example program give the difference between array of pointers and pointer to an array.

e) Write notes on different constants in java with suitable examples.

f) Explain with examples how classes and objects are created in java.

g) Write notes on 1D and 2D array creation, declaration and initialization with suitable examples and demonstration for each.

h) Write notes on the different types of errors in java with suitable examples.

II. a) Write notes on the different types of operators and expressions in C. Demonstrate each one with a suitable programming example. **15**

OR

b) Write a C program which rewrites "The universe is never ending" using recursion so that it terminates after 17 calls. Your program should consist of a single main() function that calls itself recursively. **15**

P.T.O.

III. a) Write a C program to implement merge sort using the concept of dynamic memory allocation, malloc and calloc. **15**

OR

b) With an example program, illustrate the file handling functions and file related operations. Also specify how access privilege is given to a file. **15**

IV. a) Explain in detail the different operators available in java with suitable examples. **15**

OR

b) Explain in detail with suitable programming examples, the inheritance in java and the different types of them. **15**

V. a) Explain in detail how multiple inheritances can be achieved in java by using interfaces. **15**

OR

b) Explain in detail the concept of steams and the different types of stream classes with suitable examples. **15**