T. E. Computer Sem - II
May - June - 2012

Total No. of Questions : 12]

SEAT No. :

P1139

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T.E. (Computer Engg.)

PRINCIPLES OF PROGRAMMING LANGUAGES

(2008 Pattern) (Sem. - II)

Time : 3 Hours] *[Max. Marks : 100*

Instructions to candidates:

1) ***Answer three questions from Section - I and three questions from Section - II.***
2) ***Answers to the two sections should be written in separate answer books.***
3) ***Neat diagrams must be drawn wherever necessary.***
4) ***Figures to the right indicate full marks.***
5) ***Assume suitable data, if necessary.***

SECTION - I

Q1) a) What do you mean by programming paradigms? State key features of following: **[10]**

i) Logic programming.
ii) Functional programming.
iii) Parallel programming.
iv) Concurrent programming.

b) What is the scope, visibility and lifetime of a variable which is **[8]**

i) Static variable.
ii) Extern variable.

OR

Q2) a) Explain difference between recursive call and ordinary call of a program. How recursive subprogram call acts as an important sequence control structure in programming? **[8]**

b) Differentiate between structured and nonstructured data type. **[4]**

c) What do you mean by storage management? Explain static and dynamic storage management. **[6]**

Q3) a) What are the features of procedural programming? How procedures and modularity makes procedural programming as a better choice for programs. **[8]**

b) With suitable example, demonstrate how nested procedures and functions acts as a efficient program design construct. **[8]**

OR

P.T.O