



Nov-Dec
2011

[4063] – 358

T.E. Information Technology (Semester – II) Examination, 2011
PROGRAMMING PARADIGMS
(2008 Pattern) (New)

Time : 3 Hours

Max. Marks : 100

SECTION – I

1. A) State and explain the importance of learning programming languages. **10**
B) State and explain different language paradigms. **8**

OR

2. A) What are the attributes of a Good programming language ? **10**
B) Define programming environment. **2**
C) Explain the concept of data types. Describe specifications of data types. **6**
3. A) Explain any two problems occurring while evaluating any expression. **8**
B) Explain with example the content of Code segment and Activation record at run time. **8**

OR

4. A) Explain the concept of backtracking related to Prolog. **8**
B) State any 8 elements which require storage at run-time. **8**
5. A) Explain design principles of object-oriented programming. **8**
B) What are the issues required for implementing object-oriented programming ? (any 4). **8**

OR

6. A) Explain Applet life cycle. **10**
B) State and explain steps required to execute Applet. **6**

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SECTION – II

7. A) What are the drawbacks of Prolog ? 8
B) Which type of storage management is used in LISP ? Explain any one with example. 10

OR

8. A) How recursion is implemented in Prolog ? Explain it with example. 8
B) Discuss Garbage collection and Dangling references using an example in LISP. 10
9. A) Explain different categories for classification of computer architecture. 8
B) Explain concept of Mapping ? Explain different types of Mapping. 8

OR

10. A) State the different Synchronization mechanisms of Parallel programming language. Explain any two. 8
B) Explain Data parallelism versus Control parallelism. 4
C) Explain any two Granularity Levels. 4
11. A) Sketch the picture of computation for $X = B^2 - 4 * A * C$ relative to data flow and control flow methods. 8
B) Describe design principles of Database Programming. 8

OR

12. A) Explain design principles of Network System. 8
B) Describe windows programming. Explain the contents standard EXE project with Visual Basic. 6
C) Explain the concept of links in HTML document. 2

