

Total No. of Questions : 12]

SEAT No. :

P2286

[4758] - 105

[Total No. of Pages :3

T.E. (Information Technology)
PROGRAMMING PARADIGMS
(2008 Pattern) (Semester -II) (314450)

Time :3 Hours]

[Max. Marks : 100

Instructions to the candidates:

- 1) Answers Question1 or Q2, Q3 or Q4, Q5 or Q6 from Section I and Question 7 or Q8, Q9 or Q10, Q11 or Q12 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 Dynamic Type Checking? Enlist advantages and disadvantages of Dynamic Type Checking. **[8]**

b) What are the attributes of Good Programming Language? **[8]**

OR

Q2) a) Define the term “Binding” with suitable example. **[8]**

b) Explain the concept of coercion with suitable example. **[8]**

Q3) a) What are different problems occurred at the time of expression evaluation? Explain it with suitable example. **[10]**

b) Explain co-routines and its implementation. **[8]**

OR

P.T.O.

Q4) a) Explain following terms with suitable examples. **[10]**

i) Exception and Exception handler

ii) Build in Exception

b) State and explain referencing environment with suitable example. **[8]**

Q5) a) Explain concept of inheritance with respect to JAVA and C++ in details. **[8]**

b) Explain Applet life cycle. **[8]**

OR

Q6) a) Explain the concept of multithreading with suitable examples. **[8]**

b) Differentiate Procedure Oriented Programming Language and Object Oriented Programming Language. **[8]**

SECTION- II

Q7) a) Explain concept of recursion in PROLOG with suitable example. **[8]**

b) What do you mean by function languages? What are the applications of function languages? **[8]**

OR

Q8) a) What are the applications of logic programming? Explain facility and deficiencies provided by PROLOG. **[8]**

b) Compare: Unification and Backtracking. **[8]**

Q9) a) What do you mean by parallel programming? Why do use parallel programming? **[8]**

b) Explain different classification of Computer Architecture. **[8]**

OR

- Q10)**a) What is the role of compilers in parallel programming? [8]
- b) Explain the concepts of mapping with their types. [8]
- Q11)**a) Explain concept of data definition language and data manipulation language. [8]
- b) Write short notes on: [10]
- i) Windows Programming using Visual Basic
 - ii) Socket Programming using JAVA.

OR

- Q12)**a) Write short notes on: [10]
- i) Links in HTML
 - ii) Components of URL
- b) Explain Database Programming design principles. [8]

