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T.E. (Information Technology)

PROGRAMMING PARADIGMS

(2008 Course) (314450) (Semester - II)

Time : 3 Hours]

[Max. Marks :100

Instructions to the candidates:

- 1) Answers Question 1 or 2, 3 or 4 and 5 or 6 from Section I and Question 7 or 8, 9 or 10 and 11 or 12 from Section II.*
- 2) Answers to the two sections should be written in separate answer - books.*
- 3) Neat diagrams must be drawn whenever necessary.*
- 4) Figures to the right indicate full marks.*
- 5) Assume suitable data, if necessary.*

SECTION - I

- Q1)** a) Why there is a need to study programming languages explain in detail.[8]
b) What are the attributes of Good Programming Language? [8]

OR

- Q2)** a) Define the term “Binding” with different binding types suitable example.[8]
b) Explain in detail procedural and functional programming paradigms?[8]

- Q3)** a) Explain in detail [10]
i) Static scope rule.
ii) Dynamic scope rule.
b) Explain co-routines and its implementation. [8]

OR

- 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]

P.T.O.

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

SECTION - II

- Q7)** a) i) Explain life cycle of applet with proper example. [4]
ii) Differentiate Applet and Application. [4]
iii) Differentiate AWT and SWING. [4]
b) What do you mean by function languages? What are the applications of function languages? [6]

OR

- Q8)** a) What are the applications of logic programming? Explain facility and deficiencies provided by PROLOG. [10]
b) Compare: Unification and Backtracking. [8]

- Q9)** a) Explain message passing and shared address space. [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 note on: [8]

i) Windows Programming using Visual Basic.

ii) Socket Programming using JAVA.

OR

Q12)a) Write short notes on: [8]

i) Links in HTML.

ii) Components of URL.

b) Explain Database Programming design principles. [8]

