Total No. of Questions: 12]		SEAT No. :
P2966	[4050] 205	[Total No. of Pages : 3

[4958]-207

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

Time: 3Hours] [Max. Marks: 100

Instructions to the candidates:

iii)

Scope of a variable

- 1) Answer question Q1 or 2,Q3or 4 and Q5 or 6 form section I and question Q7 or 8, Q9 or 10 and Q11 or 12 from section II.
- 2) Answer 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.

SECTION-I

Why there is a need to study programming language explain with **Q1)** a) [8] Choice of Programming Languages. i) Design a new language. ii) Explain different aspects of cost of programming Languages. b) [8] OR Explain properties of structured and derived data types. **Q2)** a) [8] Define the term "Binding". With suitable example explain: [8] b) i) Language implementation time Translation time ii) Explain with example the content of code segment and activation record **Q3**) a) at run time. [8] Define the following: b) [8] i) Static scope rule Lifetime of a variable ii)

Q4)	a)	Explain the concept of sequence control in recursive subprograms			
	b)	Discuss various parameter passing methods with suitable examples. [
Q5)	a)		What do you mean by applet and further explain life cycle of applet with proper example. Write difference between. [12]		
		i)	Applet and Application		
		ii)	AWT and SWING		
	b)	Exp	lain difference between C++ and JAVA	[6]	
			OR		
Q6)	a)	Exp	lain concept of abstract class and interface with respect to Java.	[9]	
	b)	_	lain the concept of Multithreading? Explain the same with respect A with suitable example.	et to [9]	
			SECTION-II		
Q7)	(7) a) Explain		lain approaches for garbage collection in LISP.	[8]	
	b)	Exp	lain Unification and Backtracking with example in prolog.	[10]	
			OR		
Q8)	a)	i)	Enlist Application of Logic programming.	[5]	
		ii)	What are cuts in Prolog? How it is used in program.	[4]	
	b)		ine following terms with respect to declarative and function	na] [9]	
		i)	Facts, Rules and Queries		
		ii)	Lambda Calculus		
		iii)	Reduction		
Q9) a)		Exp	lain the Flynn's classification of computer architectures.	[8]	
	-		lain different synchronization mechanisms of parallel programm auge.	ing [8]	
			OP		

Q10) a) Explain message passing and shared address space. [8] b) Explain Data flow diagram in detail with example. [8] Q11) Write short notes on following:-[16] Internet Programming. a) b) Design principles of Database programming. OR Q12) Write short notes on following: [16] Mapping and Granularity a) Windows Programming b)

