Total No. of Questions : 12]

SEAT No. :

P1668

[Total No. of Pages : 2

[5058]-156
T.E.(Computer)
PRINCIPLES OF PROGRAMMING LANGUAGES
(2008 Pattern) (Semester-II)

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

Instructions to the candidates:

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

SECTION-I

Q1) a) What are characteristics of good programming language? **[8]**

b) Explain parallel programming and concurrent programming paradigms. **[8]**

OR

Q2) a) Explain the control flow statements in C. **[8]**

b) Describe with examples implementation and storage representation of data types. **[8]**

Q3) a) Explain the basic elements of PASCAL programming language. **[8]**

b) Describe desirable and undesirable characteristics of procedural programming. **[8]**

OR

Q4) a) Which are the different parameter passing technique in PASCAL? **[8]**

b) Compare and differentiate C and PASCAL. **[8]**

Q5) a) Explain the socket programming in Java. **[8]**

b) Explain the multithreading with using Thread class and Runnable interface. **[10]**

OR

Q6) a) Explain the method overloading, overriding, dynamic method dispatching. **[4]**

b) Explain the exception handling in java.

c) Write short note on JDBC. **[6]**

P.T.O.

SECTION-II

Q7)	a)	Describe the structure of C# program.	**[8]**
	b)	Explain the various components of . NET framework.	**[8]**
		OR	
Q8)	a)	Explain with example delegates & event handlers.	**[8]**
	b)	Explain multithreading in C#.	**[8]**
Q9)	a)	Explain resolution and unification in Prolog.	**[6]**
	b)	How goal is resolved in Prolog.	**[6]**
	c)	What is cut operator in PROLOG?	**[4]**
		OR	
Q10)	a)	Explain the facilities and deficiencies of Prolog.	**[8]**
	b)	What are different searching techniques supported by logic programming?	**[8]**
Q11)	a)	Explain free and bound variables, reductions in functional programming.	**[10]**
	b)	What are different applications of Functional Programming?	**[8]**
		OR	
Q12)	a)	Explain the expression evaluation in functional programming.	**[10]**
	b)	Explain the carcdr, nthcdr, map, cons, append, reverse.	**[8]**

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