4	Roll No. :		Total Printed Pages :
16		4E2916	
4E2	B. Tech. (Sem. IV) (Computer Engg. 4IT2 Principles of (Common for C.S. 8	tion, June/July - 2011 nguages	
Timo :	3 Hourel		ITotal Mark

|Total Marks: 80

[Min. Passing Marks: 24

Attempt any five questions selecting one question from each unit. All questions carry equal marks. Schematic diagrams must be shown wherever necessary. Any data you feel missing suitably be assumed and stated clearly. Units of quantities used/calculated must be stated clearly.

Use of following supporting material is permitted during examination. (Mentioned in form No. 205)

	Nil 2. <u>Nil</u>
	UNIT - I
1 (a)	Explain different attributes of a good programming language.
(b)	Explain binding and binding time with example. 8
1 (a)	OR Explain structure and operation of a computer.
(b)	Explain different language paradigms.

Explain specification and implementation of elementary data (a) type.

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[Contd...

	(1	b) Explain type checking and differentiate between conversion and type coercion.	type
		\mathbf{OR}	8
2	(a		
	(Ъ		8
			8
2 No.		UNIT - III	
3	(a)	Explain subprogram definition and invocation.	
	(b)	Describe sequence control method for recursive subprogr	8 am.
		OR	8
3	(a)	Explain Exception and Exception handler.	
	(b)	Explain sequence control of conditional statements.	8
		UNIT - IV	8
4	(a)	What is scope, lifetime and visibility of a variable, compalocal, non-local and global reference environment.	are
* * * * * * * * * * * * * * * * * * *	(b)	Explain different parameter passing mechanism.	8
		OR	8
	(a)	Define tasks and task management. Explain different ta synchronization methods.	sk
	(b)	Explain static and dynamic scope with a suitable example.	8
			8
E29	16]	[Contd	. 7

UNIT - V

Discuss problems in recovery phase, reference count and

(a) Explain storage management phases. (b) Explain static and stock based storage management.

5 (a) Explain heap storage management for variable size element.

garage collection.

(b)

OR