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R13

12+5

Code No: 115AN

b)

Write short notes on C# threads.

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD B. Tech III Year I Semester Examinations, November - 2015 PRINCIPLES OF PROGRAMMING LANGUAGES

	(Computer Science and Engineering)	
Time:		ax. Marks: 75
Note:	This question paper contains two parts A and B. Part A is compulsory which carries 25 marks. Answer all questions in consists of 5 Units. Answer any one full question from each unit. Each of 10 marks and may have a, b, c as sub questions.	Part A. Part B question carries
	PART - A (25 Marks)	
1.a) b) c) d) e) f) g) h)	Define syntax and semantics. Define derivation and a parse tree. What is the problem with case sensitive names? What is a variable? What are the attributes of a variable? What is a Co-routine? Explain. Explain the scope and life time of a variable. What is message passing? Explain. What advantages do monitors have over semaphores? What are the data types supported in Python?	[2] [3] [2] [3] [2] [3] [2] [3]
- j)	Differentiate between procedural and data abstraction.	[3]
	PART - B (50 Marks)	
2.a) b)	In what fundamental way do operational semantics and denotational sema Explain with an example how operator associativity can be incorporated	nntics differ? n grammars. [5+5]
	OR	. ,
3.a) b)	What are the three general methods of implementing a programming lang. The levels of acceptance of any language depend on the language. Comment on this.	uage? e description. [5+5]
4.a) b)	Explain the differences between subtypes and derived types. What are the design issues for character string types? Discuss. OR	[5+5]
5.a) b)	Describe the process of Array initialization. Explain the problems associated with Unconditional Branching.	[5+5]
6.a) b)	Explain the design issues that are involved in functions. What are the advantages and disadvantages of dynamic type binding? OR	[5+5]
7.a) b)	Explain how subprogram names are passed as parameters. Illustrate with Explain how subprogram is overloaded? Give examples.	examples. [5+5]
8.a) b)	Explain in brief about Exception handling in Ada. Discuss Terms and Goal statements in Prolog. OR	[5+5]
9.a)	What is a semaphore? What are the operations on semaphores?	12.51



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- 10.a) Explain the Basic primitives of LISP. Give suitable examples.
 - b) Discuss the applications of functional languages.

OR

- 11.a) Explain the differences between Imperative and functional languages.
 - b) Write a detail note on functions in ML.

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