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Code No: 115AN ::::

··· JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

B. Tech III Year I Semester Examinations, November/December - 2016 PRINCIPLES OF PROGRAMMING LANGUAGES

(Computer science and Engineering)

		((Computer science	and Engineering)					
	Time: 3 hours		800 00000	_880, 00100		Max. Marks: 75			
4****	Note: This que			11.5	•••••••••••				
·:	Note: This que	stion päper con	tains two parts A	and B."	••	## (###) - Originality (% The grant			
ž, sažitai. Kaži	Part A is	compulsory v	vhich carries 25	marks. Answer al	ll questions in	n Part A. Part B			
• • • •	consists	of 5 Units. Ans	wer any one full	question from each	ch unit. Each	question carries			
			a, b, c as sub que						
						*** ****			
::::			···: PAR	Γ - Α.:					
****	44" "200"	** ***	** ***	•••	••	(25 Marks)	••*		
						ŕ			
	1.a) Define s	yntax and sema	antics.			[2]			
	•	language categ	gories.			[3]			
	c) What is	the purpose of	assignment state	ment2	.***. :****		,••• ·		
	d) What is	a väriäble? Wh	nat arë the attribu	tes of a variable?		<u>[2]</u> [3]	·		
			function and proc			[2]	••		
			all and return stat			[3]			
	g) What is	the difference	between a C++ c	lass and an Ada p	ackage?	[2]			
	h) Define S	Semaphore and	monitor.		•	[3]			
. :	i) ::::: Write th	e advantages o	f scripting langua	ages <u>::::</u> :::::					
::	j) ···· What are	e the application	ons of functional	programming lang	guages?	::: <u>:</u> :::[2] -: -:[3]	****		
		• •	. ^		_				
			PAR	Г - В					
						(50 Marks)			
	A			ing kömörtha 1	_1_116w	9°T:::::1			
	الم المالية ال	user-defined o	perator:overtoad	ing härmithe read	adulty or a pr	ogrami, explain.	:		
••••	b) "Define gi	rammars, deriv	ation and a parse			[7+3]	•		
	2 a) Die	January 1	O						
	3.a) Discuss a								
	b) Describe	the basic conc	ept of axiomatic	scinantics.		[5+5]			
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· i	4.a): Explain i b) What are	n detail counte	r-controlled 100p	S. '	*****	٠٠٠ أ٠٠٠			
	b) what are	various design				····[5+5]	•••		
	E _\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\	41 1	. C	K					
		the design issu				FA #7			
	b) Explain a	issociative arra	ys, their structure	e and operations.		[3+7]			
2	Civiling	hainiaha and 1	fatiini ifaiabl	es with examples		:	.***		
	·	me characteris	sucs of co-roughe	e feature? List the	anguages w		•		
	routines.		0.	n		[5+5]			
	<i>a</i> > E : : :	1.	.0:		T11	.1			
	7.a) Explain h	ow subprogran	n names are pass	sed as parameters.	. Illustrate wi	_			
	b)Discuss u	ser detined ov	erloaded operato	rs		:::[5+5]	····. ···		
· [:]		:							
							•••		

; <u>;</u>	8.a): What is meant by logic programming? Explain different types of applications of logic programming. b) Discuss briefly exception handling in ADA. [5+5]							
5	9.a) What b) Brief :: 10.a) Comp	t is the difference ly Explain the Su :: :: pare functions in	between checke b-program level :: : ML and Haskell	OR d and unchecked e concurrency.		a? [4+6]		
15	11.a) Make	e a comparison be		OR I and imperative L		[5+5] 	9	
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