R13

## Code No: 115AN

, x \*\* , x \*\* , x x , x x , x x

\*\*\*\* \* \* \* \* \* \* \* \* \* \*

## JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD B. Tech III Year I Semester Examinations, March - 2017

PRINCIPLES OF PROGRAMMING LANGUAGES

(Computer Science and Engineering)									
Time: 3 hou	**************************************	****	A and D	M E C	lax. Marks: 75	**************************************			
Part consi		which carries 25 swer any one fu	5 marks. Answe ll question from	r all questions in each unit. Each					
MW	KØ	PAI	RT - 🏭	KE	(25 Marks)				
,	the relative advantage are the fundament	•			[2] [3]				
c) Write d) Ment	the difference be ion the primary d	etween a C++ po esign rssues spec	inter and a Java eific to arrays.	Reference variab in [in] r parameter-passi	le[2] ng methods?	X X X X X X X X X X X X X X X X X X X			
g) Give h) Desc	is an overloaded the two kind of a ribe the functiona	bstractions in pro lity of 'finally' cl	ogramming lang ause of JAVA e	xception handling	[2] [3] [2] g mechanism. [3] [2]	ŔØ			
	are the features of		RT - B		[3]				
**** *** * * * * * * * * * * * * * * *	X	****	**** *** * * * * * * * * * * * * * * *	***	(50 Marks)	+ + + + + + + + + + + + + + + + + + +			
	(E)	words, the con-	cept of orthogo	language. nality in progran	nming language [5+5]				
3.a) Explain Explain Explain	ain the syntax of 'ain the practical p	case' statement	OR in Pascal using I red with the if-th	BNF notation and en-else statement	syntax graphs.	X + 4 X			
4.a) What		ve array? Disci	uss its structur	e and implemen	atation with an				
	a detail note on g	6 Y 6 Y	ds. OR		[5+5]	**************************************			
	ain mixed mode a are the design			nt example. oop statements?	Explain briefly. [5+5]				
**** *** * * * * * * * * *** * *				****		+ X × + + X × + X			

	b) Explai	ds. In about generic s the shallow-aris the riced of an	sub-programs wit  Occess method of i	ne and pass-by h examples. R mplementing dyr d in implementin	namic scoping.	[5+5]	RC RC		
	<ul><li>8.a) Explain the exception handling mechanism in C++ with illustrative example.</li><li>b) Write a note on Abstract Data Types in Ruby. [5+5]</li></ul>								
*	9.ax What	is a semaphore?	C Explain its role in	D	KB	[5+5]			
	10.a) Comp b) Descr	pare Functional priibe the two comm	rogramming lang non mathematica	uages and Imperal	tive Languages s that are provid	ed by scheme.			
X + + + X X + + + + + + + + + + + + + +	****	**** *** ***  * * * * * * * * * * * * *	****	OR Exist	**************************************	[5+5]	X Y O X X X X X X X X X X X X X X X X X		
	11. Expla	in various storag	e and control stat	ements available	m i ython.	[20]			
.M	RØ		RØoo	O00-	RØ	RE			
	RØ	RB	RØ	RO	RE	RE			
				****	**** ****	\$***. ****.	×*** * *		
*** * * * * * * * * * * * * * * * * *	R.C.		***** ********************************		****	RU	X P P X		
X + N X 0 X 4 X X 4 X X 5 X 8 9				RE			***** * * * * * * * *		
X X Y 4  X X X 4  X X X 4							*****  * * * * * * * * * * * * * * * *		