Total	No.	of	Ques	tion	S	:	8

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[5869]	280
2003	200

SEAT No.:		YAME		
[Total	No	of Pages	-	7

## S.E. (Computer Engineering)

## PRINCIPLES OF PROGRAMMING LANGUAGES (2019 Pattern) (Semester - IV) (210255)

	(2000) (000) (000)	10233)
Time: 21/2	Hours]	[Max. Marks: 70
Instruction	ns to the candidates:	
	Attempt Q1 or Q2, Q3 or Q4, Q5 or Q6, Q7 or Q8.	
	Neat diagrams must be drawn wherever necessary.	3
3)	Assûme suitable data if necessary.	
	The state of the s	20
04)		201
Q1) a)	Describe primitive data types. List the primiti	No.
	their respective storage capacity.	[6]
b)	Write short notes on Java Virtual Machine(JV)	
c)	State the uses of the final keyword in Java?	[6]
	OR	
Q2) a)	Define String in Java. Explain following ope	
	Java with example.	[6]
	i) To find length of the string	
	ii) To compare two strings	
	iii) To extract a character from a string	(~
	iv) To concatenate two strings	200
b)	Explain Java's role in Internet. Justify the follow	owing features of Java. [6]
	i) Secure	A. A.
	ii) Architectural Neutral	
	iii) Distributed.	1
c)	Summarize different access controls in Java. I	Explain the situation if you
1	remove static modifier from the main method	
		0,0
(3) a)	State the difference between character and by	te stream in Java. Give any
-	two input and any two output classes for cha	
	X)	0,
b)	Describe Exception. Explain keywords try,	eatch throw throws and
, 0)	finally related to exception handling.	[6]
c)	Define package and interfaces in Java? Explain	
( )	OR	it with suitable example.[5]
	00,	
		nmo

P.T.O.

Q4)	a)	Define is inheritance. List the advantages of Inheritance, Explain Simple	
		inheritance in java with example. [6]	
	b)	Elaborate the significance of key word "Super" in Java. Demonstrate	
		with example for Super keyword in Java constructor. [6]	
	c)	State the importance of finally blocks. Illustrate the ways finally block	
		differ from finalize() method. [5]	
201			
Q5)	a)	Interpret the terms multitasking and multiprocessing and multithreading	
		in Java with example. [6]	
	(b)	List the Features, advantages and limitations of Angular JS. [6]	
	c)	Write the JavaScript code to create Login page Form. [6] OR	
(96)	a)	Compare React JS and Angular JS and Vue JS. [6]	1
	b)	Elaborate the terms getPriority() and setPriority() methods with example	
		16	1
	c)	Explain the uses of isAlive() and Join() methods in Java thread with	i
		example. [6	
07)	a) =	Describe Functional Programming. Enlist its features. Also list the	
.,	1	commonly used functional programming languages. [6]	
	b)	Write sequences of CAR's and CDR's that will pick the atom pear ou	•
	0,	of the following s-expression:	
	_	i) (apple orange pear grapes) > 1	•
	M	i) ((apple orange) (pear grapes)) <sup>1</sup>	
	1	((apple)(orange) (pear) (grapes))) 1 2	
	c) \	Explain the concept of "Structures" in Prolog with example.	
	()	OR	,
08)	6)	Describe Logical Programming. Enlist its features. Also list the comment	1.
Q8)	a)		1
	13		
	b)	Write a LISP program to find the factorial of n numbers using recursion	
			1
	c)		51
		i) NUMBERP	
		ii) ZEROP	
		iii) PLUSP	
		iv) EVENP	
		· ODDD	

