Total No	o. of Questions : 8]	EAT No. :
P153	5	[Total No. of Pages : 3
1 133.	[6002]-164	[Total No. of Pages: 5
	S.E. (Computer Engineering	
	PRINCIPLES OF PROGRAMMING LA	NGUAGES
	(2019 Pattern) (Semester - IV) (21	10255)
		,
	½ Hours] ions to the candidates:	[Max. Marks : 70
1 <i>nstruct</i> 1)	Answer Q.1 or Q.2, Q.3 or Q.4, Q.5 or Q.6, Q.7 or Q.8.	
2)	Figures to the right indicate full marks.	
3)	Neat diagrams must be drawn whenever necessary.	
<i>4</i>)	Make sumble assumptions whenever necessary.	
Q1) a)	Explain following features of java in detail	[6]
2 1) (1)	i) Security	+ (0)
	ii) Platform Independence	
	iii) Object - oriented	
	in Object Oriented	
b)	Write short note on	[6]
0)	i) Garbage collector	[Մ]
	ii) this	
	ii) uiis	
c)	Define constructor. Which are the types of Co	onstructor used in Java?
0)	Explain with example.	[6]
	Explain with example.	[0]
	OR	
Q2) a)	Explain following features of java in detail	·[6]
~ /	i) Portability	
	ii) Architecture Neutral	
	iii) Distributed	.5
	9.	
b)	Write short note on	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
	i) final	
	ii) finalize ()	1, 20h.
		[6]
c)	Explain one dimensional and multi - dimensional	l array used in Java with

What is mean by inheritance? Explain the various types of inheritance used in Java with suitable example. [6] **Q3**) a)

P.T.O.

	b)	Explain following keywords of Java in detail	[6]
		i) try	
		ii) catch	
		iii) finally	
		,6	
	c)	Define package used in Java. Explain syntax, use, CLASSPATH, hierar	chy
	,	of package with example.	[6]
			L-3
		OR	
Q4)	a)	Elaborate Method overriding and dynamic method dispatch in Java.	161
ر. ي	α)	Zhao state) 12 cin duy verrianing and dynamic mediod disputen in su va.	[0]
	b)	Explain various Exception Handing mechanisms in Java	[6]
	0)	Explain various Exception Handing meenamsms in sava	[o]
	c)	What is the concept of stream, Explain byte stream and character stre	am
	<i>C)</i>	in detail.	[6]
		in detain.	լսյ
<i>Q</i> 5)	٥)	Explain different ways to implement Threads in Tava? With code exam	nlo
Q_{3}	a)	Explain different ways to implement Threads in vava? With code exam	_
	2		[6]
	b)	Explain the helesy methods in datal	Γ 4 1
	b)	Explain the below methods in detail.	[6]
		i) Isalive	
		ii) notify	
		iii) getpriority	
	2)	List the Factures, advantages and limitations of Vive IC	151-90
	c)	List the Features, advantages, and limitations of Vue JS.	[5]
		OR	
00			*.1
Q6)	a)	Explain the uses of is Alive () and join () methods in the java thread v	
		examples.	[6]
			F 63
	b)	Explain the thread life cycle model in Java.	[6]
	,		r = 1
	c)	Write a short note on React JS and Angular JS.	[5]
		Cy 26	
		6.	

Q7) a)	Explain the features of LISP programming.	[6]
b)	Explain the following Equality predicates using a suitable example.	[6]
c)	 i) EQUAL ii) EQ iii) EQL iv) = Explain the following number predicates using a suitable example. i) NUMBERP ii) ZEROP 	[5]
	iii) PLUSP iv) EVENP v) ODDP	
Q 8) a)	OR Explain the following functions with suitable examples.	[6]
Q 0) a)	i) CAR() ii) CDR() iii) FIRST()	[6]
b)	Describe Logical Programming. Enlist its features. Also, list the commo	only
0)		[/]
c)	Evaluate the following forms of LISP.	[5]
	i) (car (cdr'(1 2 3 4 5))) ii) (car (cdr' (a (b,c) d e)))	
	iii) (car (cdr (cdr (1 2 3 4 5 6 7 8))))	
	* * *	
	i) (car (cdr'(1 2 3 4 5))) ii) (car (cdr' (a (b,c) d e))) iii) (car (cdr (cdr'(1 2 3 4 5 6 7 8)))) ** ** -164 3	
[6002]	-164	