(i)	Prin	nted Pages : 2	Roll No	••••••
(ii)	Que	estions : 9	Sub. Code:	0 9 4 9
		*	Exam. Code:	0 0 3 1
	В	achelor of Com	puter Applications 5th	Semester
			1128	
		JAVA	PROGRAMMING	
. 746		Pa	per-BCA-16-503	
Time	Allo	wed: 3 Hours]	_	imum Marks : 65
Note	:-	Attempt any on compulsory.	e question each from U	Init I-IV. Unit V is
			UNIT-I	
1.	(a)	Write notes on the	e following: Byte code, Ja	ava Virtual Machine
		and Java develo	pment Kit.	6
	(b)	Discuss the str	ucture of Java Progran	n and the steps to
		execute it.	2 1 1 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1	7
			What are various type of i	
	1000		Iow do you implement i	
			you initialise base class	
	deriv	ved class constru	ctors? Discuss with he	lp of Java code.
		The state of the s	UNIT-II	13
3.	(a)	Write a Java Pro	ogram to get the values	of 3×3 matrix and
		find its transpos	e.	7
	(b)	What are packa	ges? What are their ty	pes? How do you
		use them in Jav	a Program ?	6
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(a)	Differentiate among String and StringBuffer class.			
(b) What are the various pre-defined streams in Java				
	each one of them briefly.	4		
(c)	What are interfaces? How are they implemented in	Java?		
		4		
	UNIT-III			
(a)	Discuss the Java Thread model.	7		
(b)	What are the various ways to create a thread in J	ava ?		
	Explain.	6		
Write a Java Applet to draw various shapes like lines, rectang				
circ	les and ellipses. Write the steps to execute this applet.	13		
,	UNIT-IV			
Wha	at are Layout managers? What is the benefit of using the	hem?		
Disc	cuss the various Layout managers supported by Java.			
		13		
8. Discuss the JDBC architecture in detail. Write a Java 1				
crea	te a connection with the database. Explain the various cl	asses		
used	l in this program.	13		
	UNIT-V			
	(Compulsory Question)			
(a)	Why Java is considered a secure language?	2		
(b)	What is the use of Final Keyword?	2		
(c)	What is difference between interface and abstract cla	iss?		
		2		
(d)	How do you create user defined exception?	2		
(e)	Give some applications of Applet.	2		
(f)	What is delegation event model?	3		
EPY	Z-12357 2	500		
	(b) (c) (a) (b) Writering Circle What Discrease used (a) (b) (c) (d) (e) (f)	(b) What are the various pre-defined streams in Java? Deach one of them briefly. (c) What are interfaces? How are they implemented in UNIT-III (a) Discuss the Java Thread model. (b) What are the various ways to create a thread in Jexplain. Write a Java Applet to draw various shapes like lines, rectarcircles and ellipses. Write the steps to execute this applet. UNIT-IV What are Layout managers? What is the benefit of using the Discuss the various Layout managers supported by Java. Discuss the JDBC architecture in detail. Write a Java progracreate a connection with the database. Explain the various clused in this program. UNIT-V (Compulsory Question) (a) Why Java is considered a secure language? (b) What is the use of Final Keyword? (c) What is difference between interface and abstract classifications of Applet. (f) What is delegation event model?		