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\	ode No: 133BM  JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY  B.Tech II Year I Semester Examinations, November/Decen  OBJECT ORIENTED PROGRAMMING THROUGH		AD	
Ti	me: 3 Hours (Common to CSE, IT)	JAVA Max. Marks	:75	/
No	Part A is compulsory which carries 25 marks. Answer all questions in Part B consists of 5 Units. Answer any one full question from each carries 10 marks and may have a, b, c as sub questions.			
	PARTIA A	40 <u>,</u>	AG	/
1a) b) c) d)	What is inheritance? Give example.  Define the basic characteristics of object oriented programming.  What is Console class? What is its use in java?  What is the use of auto boxing in java? Explain.	]	Marks) [2] [3] [2] [3]	·
( ) ( ) ( ) ( ) ( ) ( ) ( )	What is thread based preemptive multitasking? How do we set priorities for threads? What is a Java Priority queue? What is a Collection Class? Give an example. What is Swing in Java? How it differs from Applet.	40	3] 2] 2] 3]	_
j)	How do applets differ from application program?		2] 3]	
2ia) b)	Describe the structure of a typical Java program with an example.  Write the significance of Java Virtual Machine.  OR	<b>(50 M</b>	arks) 5+5]	A
3.a) b)	How do we implement polymorphism in JAVA? Explain briefly. What is an array? How do you declare the array in java? Give example	L	+5]	
4.a) b)	How to design and implement an interface in Java? Give an example of the an example where interface can be used to support multiple inhere	.)	^ +sj\\	A
5.a) b)	What are the methods available in the Character Streams? Discuss.  Distinguish between Byte Stream Classes and Character Stream Classe	s. [5	+5]	*
6.a) (b) 7.a)	What is an Exception? How is an Exception handled in JAVA?  Write a java program that illustrates the application of multiple catch st.  OR  Differentiate between multiprocessing and multithreading. What	atements. [5-	<u> </u>	Д
b)	implement these in a program? Write a program that creates two threads. Fist thread prints the numbers from 1 to 100 and the other thread prints the numbers from 100 to 1.			
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## What are similarities and difference between ArrayList and Vector? Explain. 8. a) What is different between Iterator and ListIterator? Explain different ways to iterate over a b) OR What are the best/practices related to Java Collections Framework? Discuss. 9 a) What is Comparable and Comparator interface? Differentiate between them. What is the difference between init() and start () methods in an Applet? When will each 10.a) be executed? Write the applets to draw the Cube and Circle shapes. b) Explain various layout managers in JAVA. Write a program to create a frame window that responds to mouse clicks ---00000----

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