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Code	No: 133BM		
JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD			
B. Tech II Year I Semester Examinations, April/May - 2018			
OBJECT ORIENTED PROGRAMMING THROUGH JAVA (Common to CSE, IT)			
	This question paper contains two parts A and B.	(S: 75/	/
	Part A is compulsory which carries 25 marks. Answer all questions in Part A.		
	Part B consists of 5 Units. Answer any one full question from each unit. Each question		
carries 10 marks and may have a, b, c as sub questions.			
△ (What is abstract class? Give example. PART, A What is abstract class? Give example. Explain the use of 'for' statement in Java with an example.	5 Marks) [2]	_
c)	Define a Package? What is its use in java? Explain.	[3] [2]	
d)	List out the benefits of Stream oriented I/O.	[3]	
e)	How do we start and stop a thread?	[2]	
∧ ∫ f)	Write the complete life cycle of a thread.	[3]	,
$A = \begin{pmatrix} g \\ h \end{pmatrix}$	What is the benefit of Generics in Collections Framework? Differentiate between Enumeration and Iterator interface.		/_
i)	What are the limitations of AWT?	[3]	/
j)	Why do applet classes need to be declared as public?	[3]	
-	,	[-]	
PART-B			
A 275 N	WA 4 (47) 1 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	Marks)	
2.a) b)	What is inheritance and how does it help to create new classes quickly Describe different levels of access protection available in Java. OR	[5+5]	1
	List the primitive data types available in Java and explain.		
b)	What is polymorphism? Explain different types of polymorphisms with examples.[5+5]		
4 0)	What is an interface? What are the similarities between interfaces 1.1.		
	What is an interface? What are the similarities between interfaces and classes? How can you extend one interface by the other interface? Discuss.	[5+5]	
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()) (Discuss about CLASSPATH environment variables.		/
b)	Discuss the different levels of access protection available in Java.	[5+5]	
<i>(</i> a)	What are advantages of using Franchism 1 11'		
	What are advantages of using Exception handling mechanism in a program? Write a java program that demonstrates how certain exception types are not allow	and to be	
	thrown,	[5+5]	
ΔC_{-}	$\wedge \cap \wedge \cap$		/
	What are the different ways that are possible to create multiple threaded		/
	programs in java? Discuss the differences between them.		
b) '	Write a program to create four threads using Runnable interface.	[5+5]	

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What is Java Collections Framework? List out some benefits of Collections framework and 8.a) [5+5] What is the importance of hashCode() and equals() methods? b) 9 a) What are the common algorithms implemented in Coffections Framework? Discuss. What is difference between ArrayList and LinkedList in collection framework? Explain. b) [5+5]What is an applet? Explain the life cycle of Applet with a neat sketch. 10.a) Write the applets to draw the Cube and Cylinder shapes. [5+5]b) What is an Layout/manager? Explain different types of Layout managers. Write a program to create a frame window that responds to key strokes ---00000---

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