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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD B.Tech II Year I Semester Examinations, April/May - 2018 OBJECT ORIENTED PROGRAMMING THROUGH JAVA

(Common to CSE, IT)			
	Hours This question paper contains two parts A and B. 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 que carries 10 marks and may have a, b, c as sub questions.		,
(a) (b) (c) (d)	What is abstract class? Give example. Explain the use of 'for' statement in Java with an example. Define a Package? What is its use in java? Explain. List out the benefits of Stream oriented I/O.	Marks) (2) (3) (3) (2) (3) (3) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4	/
e) f) g) h) i) j)	Write the complete life cycle of a thread. What is the benefit of Generics in Collections Framework? Differentiate between Enumeration and Iterator interface. What are the limitations of AWT?	2] 3] 2] 3,] 2] 2] 3]	/
PART-B			
2.a) b) 3.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 List the primitive data types available in Java and explain. What is polymorphism? Explain different types of polymorphisms with examples. [5]	5+5]\(\)	/
4.a) b) 5.a) b)	Discuss about CLASSPATH environment variables.	5+5] 	/
6.a) b) 7a) b)	What are the different ways that are possible to create multiple threaded programs in java? Discuss the differences between them.	to be 5+5] 5+5]	/
A /		A /	

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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 Collections 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---