

6.a)

b)

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Code No: 114CX
JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD
B.Tech II Year II Semester Examinations, May-2015

JAVA PROGRAMMING
(Common to CSE, IT)

Time: 3 Hours Max. Marks: 75

**Note:** 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 question carries 10 marks and may have a, b, c as sub questions.

Part- A		
		(25 Marks)
1.a)	What is data abstraction?	[2M]
b)	List string manipulation functions of Java String class.	[3M]
c)	Differentiate between interface and abstract class.	[2M]
d)	Explain the use of 'final' keyword.	[3M]
e)	Differentiate between thread and process.	[2M]
f)	List any six built-in exceptions in Java.	[3M]
g)	What is the difference between array and vector?	[2M]
h)	List the byte stream classes.	[3M]
i)	What are the containers available in swing?	[2M]
j)	Compare Applets with application programs.	[3M]
Part-B		
	<b>;</b>	(50 Marks)
2.a) b)	Explain the basic concepts of object oriented programming.  What is the usage of enumerated data type? Give examples.  OR	[5+5]
3.a)	Discuss Java jump statements.	
b)	Write about garbage collection in Java.	
c)	Explain the use of 'this' keyword.	[3+3+4]
4.a) b)	Explain method overriding with a suitable example program.  With suitable program segments describe the usage of 'super' keyword.  OR  [5+5]	
5.a)	What is a nested class? Differentiate between static nested classes and non-static nested classes.	
b)	How to define a package? How to access, import a package examples.	Explain with [5+5]

What is meant by re-throwing exception? Discuss a suitable scenario for this. [5+5]

7.a) Does Java support thread priorities? Justify your answer with suitable discussion.

With a suitable Java program explain user-defined exception handling.

b) Describe producer-consumer pattern using inter-thread communication. [5+5]



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8.a)	Give an account of Random collection class		
b)	Discuss the methods of Stack class		
c)	What is the need of Generics? [3+3+4]		
OR			
9.a)	Discuss the four types of JDBC driver with suitable diagrams.		
b)	Write a JDBC program to update the amount balance in an account after every		
0)	withdrawal. Assume the necessary database table. [5+5]		
10.a)	What is the significance of layout managers? Discuss briefly various layout		
	managers. [5+5]		
b)	Give an overview of Jutton class.		
OR			
11.a)	Explain delegation event model.		
b)	Write an Applet to draw a smiley picture accept user name as a parameter and display welcome message. [5+5]		

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