R13

Code No: 114CX

6.a)

b)

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			
		(50 Marks)	
2.a)	Explain the basic concepts of object oriented programming.		
b)	What is the usage of enumerated data type? Give examples.	[5+5]	
•	OR		
3.a)	Discuss Java jump statements.		
b)	Write about garbage collection in Java.	50 0 13	
c)	Explain the use of 'this' keyword.	[3+3+4]	
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4.a)	Explain method overriding with a suitable example program.	J [6,6]	
b)	With suitable program segments describe the usage of 'super' keyword OR	d. [5+5]	
5 0)			
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]	

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

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

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

- 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 withdrawal. Assume the necessary database table. [5+5]
- 10.a) What is the significance of layout managers? Discuss briefly various layout managers.
 - b) Give an overview of JButton class.

[5+5]

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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