Code No: 114CX

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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)		[2M]
b)	o i i i i i i i i i i i i i i i i i i i	[3M]
c)		[2M]
d)	•	[3M]
<u>e</u>)	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	[21,2]
		(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	[515]
3.a)	Discuss Java jump statements.	
b)	Write about garbage collection in Java.	
c)	Explain the use of 'this' keyword.	[3+3+4]
•		[51514]
4.a)	Explain method overriding with a suitable example program.	
b)	With suitable program segments describe the usage of 'super' keywork	rd. [5+5]
	OR	(4. [515]
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?	Explain with
	examples.	[5+5]
		[UTU]
6.a)	With a suitable Java program explain user-defined exception handling	-
b)	What is meant by re-throwing exception? Discuss a suitable scenario	for this. [5+5]
1.4		
7.a)	OR	
b)	Does Java support thread priorities? Justify your answer with suitable	discussion.
<i>U)</i>	Describe producer-consumer pattern using inter-thread communicatio	n. [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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