Exam.Code:0440 Sub. Code: 3499

2053

M.Sc. (Bio-Informatics) Second Semester MBIN-8009: Programming Languages in Bioinformatics - I

	The second of th	
	NOTE: Attempt <u>five</u> questions in all, including Question No. I which is compuls and selecting atleast one question from each Unit. **X-X-X**	0 cory
	Q 1. (a) How can one convert String to int in Java?	
	(b) Write a note on garbage collection. [8X1.5	- 12]
	(c) What is method overriding? How is it useful?	
	(d) Differentiate between packages and interfaces.	
	(e) List various exception types. Explain java's built-in exception.	
	(1) When should one use Runnable vs Thread in Java?	
	(g) What happens when an exception occurs in a thread?	
	(h) What are the restrictions imposed on Java applets?	
	UNIT - I	
-	Q 2. (a) What is the significance of Java operators? List all four groups. Write a Java program to add two	
	groups. Write a Java program to add two	matrices.
	(b) Define recursion. Write a program in Java to print the first 15 elements of a Fibonacci series. (3) (a) Explain the concept of inheritance. Why Java does not a	[1,2,3]
. ([1,5]
	(b) Discuss the behaviour of overriding methods in the case of interitance?	[4,2]
	(b) Discuss the behaviour of overriding methods in the case of inheritance with the help of a examples.	ppropriate
	UNIT-II	[6]
Q	4. (a) Define package. Assume you have written come also	
	4. (a) Define package. Assume you have written some classes. Now, you decide that they should be three packages. Also, assume the classes are currently in the classes.	split into
	three packages. Also, assume the classes are currently in the default package. How will you pe	rform the
	(b) Write a Java program to perform the Linear search. Use an appropriate example to explain the your code.	output of
Q 5.		
	street and the street and the street and str	(3.3)
	(b) Explain a few Java exception handling best practices in detail.	[6]
06	UNIT - III	
Q 6.	(a) Write a program to print "Good Morning" and "Wales-	
	Further, add a step method in the above program to delay the printing of the welcome for 200ms. (b) Explain the Java thread model. What is the start	threads.
	(b) Explain the Java thread model. What is the use	[4,2]
	(b) Explain the Java thread model. What is the difference between notify and notify All? Also, who inside the thread class?	y are they
Q 7.		
	(a) What is an applet? Explain the life cycle of an Applet. Also, differentiate between an Applet application.	ınd Java
	(b) Write a L	[1,2,3]
	(b) Write a Java program to read content from one file and write it into another file. (c) Discuss problems with native methods	
	(c) Discuss problems with native methods.	[4]
		[2]