

OR

4	a.	Why wild cards are required in Generics? Explain with an example program.	(08 Marks)
	b.	What is type Erasure? Describe Bridge methods with code snippet.	(06 Marks)
	C.	Explain Generic Super Class and Generic Sub Class with code Snippet.	(06 Marks)

Module-3

- a. Explain the string comparison methods with suitable examples. (08 Marks)
 - b. Explain various string constructors in java with example.
 - c. What is String Buffer? How it is differ from string? Explain any six buffer methods.

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(08 Marks)

(04 Marks)

5

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How Compare Toll method differs from Compare To Ignore Case () method? Develop a Java program to so + an array of string in descending order by ignoring case. 6 a.

- b. Explain different methods to modify the strings objects by using string Class with an
- (06 Marks) example.
- Describe different character extraction methods with example. C.

Module-4

- What is Servlet? Explain life cycle of Servlets. Differentiate between Servlets and JSP. (07 Marks) 7 a.
 - Develop a program using Servlets that contains HTML page to accept Username and address and Display Greeting message as "Hello Username-address, How are you" in the b.
 - What are Cookies? Explain how Cookies are handled in Servlets? Develop a program to create a Cookie with frame "Username" and Cookie value "XYZ". And also, display stored C. cookie in a web page.

OR

- (07 Marks) What is JSP? Explain different JSP tags with example. 8
 - What is Session Object? Develop a program to create and read session object using JSP. a. (07 Marks) b.
 - List and explain core classes and interfaces that are provided in Javax.Servlet.http package. (06 Marks) C.

Module-5

- (08 Marks) Describe the various steps of JDBC process with code snippets. (06 Marks) 9 a.
 - What is JDBC? Explain the four different types of JDBC drivers.
 - What are Transactions? Develop a program to demonstrate how to process a database b. C. transaction.

OR

Briefly explain statement object. Develop a java program to demonstrate execute Query () 10 a. and executeUpdate () methods.

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b. What is meta data? Develop a program to display table name, column, count and structure of the table with size and data types.

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