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Internal Assessment Test I (Set-1) – April 2025-26									
Sub:	Advanced Java				Sub Code:	BIS402	Branch	ISE	
Date:	17-04-2026	Duration:	90 min's	Max Marks:	50	Sem/Sec:	IV / A, B & C		OBE
Answer any FIVE questions							MARKS	CO	RBT
1	a) Explain the methods present in List interface. b) Create a class EMPLOYEE with two private string members: employee_id, employee_Name. Using LinkedList class, develop a java program to add at least 3 objects of above Employee class and display the data in neat format.					4	CO1	L3	
						6			
2	Develop a program to read random numbers between a given range that are multiples of 2 and 5, sort the numbers according to tens place using comparator.					10	CO1	L3	
3	a) Explain any four legacy classes defined in java.. b) Demonstrate ArrayList Class collection with an example.					4	CO1	L2	
						6			
4	a) What is string in Java? What are the different types of String Constructors available in Java? Explain with example. b) Explain String modification methods with example.					4	CO2	L2	
						6			
5	a) Differentiate between equals() and == with respect to String class and StringBuffer. b) Explain the following with Examples: 1. valueOf() 2.toLowerCase() 3. toUpperCase() 4.indexOf() 5. toCharArray() 6 toString()					4	CO2	L2	
						6			
6	a) Explain the differences between AWT and Swing. What are two key features of Swing and explain. b) Write short note MVC Connection and Justify how MVC is different from Model- Delegate architectures					10	CO3	L2	

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Internal Assessment Test 1 (Set 2) – April 2025-26										
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Date:	17-04-2026	Duration:	90 min's	Max Marks:	50	Sem/Sec:	IV / A, B & C		OBE	
<u>Answer any FIVE questions</u>								MARKS	CO	RBT
1	a) Explain the Queue Interface and methods b) Explain the following map classes: i) HashMap ii) TreeMap					4 6		CO1	L2	
2	a) With an example program, explain how to store user-defined classes in collection. b) Create a class EMPLOYEE with two private string members: employee_id, employee_Name. Using LinkedList class, develop a java program to add at least 3 objects of above Employee class and display the data in neat format.					4 6		CO1	L3	
3	a) Explain any four legacy classes defined in java.. b) Demonstrate ArrayList Class collection with an example.					4 6		CO1	L2	
4	a) Explain the following: a. length() method b. toString() c. charAt() d. toCharArray() b) Explain String modification methods with example.					4 6		CO2	L2	
5	a) Explain the following built in methods with respect to StringBuffer class: (i)capacity() (ii)delete() (iii)replace() (iv)append() b) Develop a Java program to count the occurrence of characters in a given String.					4 6		CO2	L3	
6	a) Explain the differences between AWT and Swing. What are two key features of Swing and explain. b) Write short note MVC Connection and Justify how MVC is different from Model- Delegate architectures					4 6		CO3	L2	

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2	a) With an example program, explain how to store user-defined classes in collection. b) Create a class EMPLOYEE with two private string members: employee_id, employee_Name. Using LinkedList class, develop a java program to add at least 3 objects of above Employee class and display the data in neat format.					4 6		CO1	L3	
3	a) Explain any four legacy classes defined in java.. b) Demonstrate ArrayList Class collection with an example.					4 6		CO1	L2	
4	a) Explain the following: a. length() method b. toString() c. charAt() d. toCharArray() b) Explain String modification methods with example.					4 6		CO2	L2	
5	a) Explain the following built in methods with respect to StringBuffer class: (i)capacity() (ii)delete() (iii)replace() (iv)append() b) Develop a Java program to count the occurrence of characters in a given String.					4 6		CO2	L3	
6	a) Explain the differences between AWT and Swing. What are two key features of Swing and explain. b) Write short note MVC Connection and Justify how MVC is different from Model- Delegate architectures					4 6		CO3	L2	

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Internal Assessment Test 1(Set 3)– April 2025-26										
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Date:	17-04-2026	Duration:	90 min's	Max Marks:	50	Sem/Sec:	IV / A, B & C		OBE	
Answer any FIVE questions								MARKS	CO	RBT
1	a) What is Collection Framework? Explain the methods defined by the collection interface. b) Mention and Explain different interfaces supported by Map.					4 6	CO1	L2		
2	a) Explain Legacy classes in collection framework with sample code. b) Explain Set interface with constructors and methods.					4 6	CO1	L2		
3	a) Explain how collectors can be accessed using an iterator with an example. b) What are comparators? Write a comparator program to sort accounts by last name					4 6	CO1	L2		
4	a) Explain StringBuffer constructor with example. b) Write a Java program to remove duplicate characters from the given string and display the resultant string [provide sample output].					4 6	CO2	L3		
5	a) Differentiate between equals() and == with respect to String class and StringBuffer. b) Explain the following with Examples: 1. valueOf() 2.toLowerCase() 3. toUpperCase() 4.indexOf() 5. toCharArray() 6 toString()					4 6	CO2	L2		
6	a) Briefly explain StringBuider with Example program. b)Write short note MVC Connection and Justify how MVC is different from Model- Delegate architectures.					4 6	CO3	L2		

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1	a) What is Collection Framework? Explain the methods defined by the collection interface. b) Mention and Explain different interfaces supported by Map.					4 6	CO1	L2		
2	a) Explain Legacy classes in collection framework with sample code. b) Explain Set interface with constructors and methods.					4 6	CO1	L2		
3	a) Explain how collectors can be accessed using an iterator with an example. b) What are comparators? Write a comparator program to sort accounts by last name					4 6	CO1	L2		
4	a) Explain StringBuffer constructor with example. b) Write a Java program to remove duplicate characters from the given string and display the resultant string [provide sample output].					4 6	CO2	L3		
5	a) Differentiate between equals() and == with respect to String class and StringBuffer. b) Explain the following with Examples: 1. valueOf() 2.toLowerCase() 3. toUpperCase() 4.indexOf() 5. toCharArray() 6 toString()					4 6	CO2	L2		
6	a) Briefly explain StringBuider with Example program. b)Write short note MVC Connection and Justify how MVC is different from Model- Delegate architectures.					4 6	CO3	L2		

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