

18AI63

## Sixth Semester B.E. Degree Examination, June/July 2023 **JAVA for Mobile Application**

11	me:	3 hrs.	x. Marks: 100
Note: Answer any FIVE full questions, choosing ONE full question from each module.			
		Modulo 1	
1	a.	Explain Java enumerations and write a code to demonstrate how varieties	- £ 1
		represented through enumerations.	
	b.	Explain following methods with suitable code snippet: (i) Values (ii) Value	(08 Marks) Of (04 Marks)
	C.	Explain type wrappers along with its importance and write a Java program	to demonstrate
		how to use a numeric type wrapper to encapsulate a value and then extract the	at value.
			(08 Marks)
2	2	Write a lave and that were C. C. C. Write a lave and that were	
4	a.	Write a Java code that uses reflection to display the annotation associated Illustrate all methods used in the program.	
	b.		(10 Marks)
		a cours in expressions	s. (10 Marks)
		Module-2	
3	a.	Explain the following collection classes with suitable code snippet:	
		(i) The ArrayList Class (ii) The LinkedList Class	(10 Marks)
	b.	Explain the collection framework core interfaces. Describe any two methods	associated with
		Collection Interface.	(10 Marks)
4	a.	Explain below listed methods with asset 1 1 1 1 2 1 1 1 1 1 1 2 1 1 1 1 1 1 1	
7	α.	Explain below listed methods with respect to algorithm defined inside collec (i) reverseOrder (ii) Shuffle	
	b.		(10 Marks)
		method for string that operates in reverse of normal.	(10 Marks)
		a special state of normal.	(10 Marks)
		Module-3	
5	a.	Explain the two string methods that returns the first occurance of a characteristic occurance oc	racter and last
		occurance of a character. Illustrate same with suitable Java code.	(10 Marks)
	b.	Illustrate how to modify a string using a following methods:	
		(i) substring() (ii) concat() (iii) replace() (iv) trim()	(10 Marks)
		OR	
6	a.	With relevant example, explain the following String Buffer methods:	
		(i) ensure Capacity() (ii) setLength() (iii) append() (iv) insert()	(10 Mayles)
	b.	Demonstrate how following methods can be used in character extraction:	(10 Marks)
		(i) charAt() (ii) getChars() (iii) getBytes() (iv) toCharArray()	(10 Marks)
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-		Module-4	
7	a.	With a neat block diagram, explain the architecture of android.	(10 Marks)
	b.	With suitable code snippet, explain linking activities using intents.	(10 Marks)

(10 Marks)

## OR

- 8 a. What is an activity? With a neat diagram, explain the Activity Life Cycle. Describe all the events associated. (10 Marks)
  - b. Summarize the states, a fragments goes through after its creation. List the different methods that are called when fragment transists from one state to another. (10 Marks)

## Module-5

- 9 a. Describe the following layout available in android: (i) Linear layout (ii) Relative layout (10 Marks)
  - b. Describe progress bar view with suitable code snippet.

OR

10 a. Write a code to build mobile application to retrieve contacts from database.

contacts from database. (10 Marks)
v using Radio Group Class. Consider a

b. Write a Java code to build a Quiz Application by using Radio Group Class. Consider a suitable view for designing the front end. (10 Marks)

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