Model Question Paper-1 with effect from 2019-20 (CBCS Scheme)

USN | | | | | | | | | | |

Sixth Semester B.E. Degree Examination

Java For MobileApplications

TIME: 03 Hours **Max. Marks: 100**

Note: 01. Answer any **FIVE** full questions, choosing at least **ONE** question from each **MODULE**.

		Module – 1	
Q.1	**(a)**	What are enumerations? With an example code, demonstrate how varieties of mangoes can be represented through enumeration.	**08M**
	(b)	Justify why Wrapper classes are required when compared to primitive types.	**07M**
	(c)	Write a Java program to demonstrate the use of values () and value Of() methods.	**05M**
		OR	
Q.2	**(a)**	Demonstrate with a Java code, how Auto boxing/Unboxing Occurs in Expressions?	**10M**
	(b)	How default values can be used in an Annotations? Explain with an example Java Code.	**06M**
	(c)	How Auto boxing/Unboxing can be used to prevent errors?	**04M**
		Module – 2	
Q.3	**(a)**	List and explain the advantages of Collections Framework in developing a generic Java programs.	**10M**
	(b)	Briefly discuss the various Collection framework interfaces with the methods declared in it.	**10M**
		OR	
Q.4	**(a)**	Develop Phone Contact application by using suitable Map Class.	**10M**
	(b)	With example code, discuss the various algorithm supported in Collections.	**10M**
		Module – 3	
Q.5	**(a)**	Write a Java program to instantiate different Constructors supported by String class.	**06 M**
	(b)	Demonstrate the following string operations i) String Literals ii) String Concatenation iii) String Concatenation with other data types iv) String Conversion and toString()	**8M**
	(c)	How following methods can be used in character extraction? i) charAT() ii) getchars() iii)getBytes() iv) toCharArray()	**06 M**
		OR	
Q.6	**(a)**	How Strings can compared with following method? i) equals and equalsIgnoreCase() ii) regionMatches iii) startsWith and endsWith()	**10M**
	(b)	With relevant example, explain the following StringBuffer methods i) ensureCapaicty() ii) setLength() iii) getChars() iv) append v) insert()	**10 M**
		Module – 4	
	(a)	With a neat block diagram, explain the Architecture of Android	**8M**

Q.7	(b)	What is an Activity? With a neat diagram the explain the Activity life Cycle.	06M
	(c)	What are Intents? With a Java code, demonstrate how intents can be used to i) Switch between Activities ii) to start an activity for result	06M
		OR	
Q.8	(a)	Which are the states, a fragments goes through after it's creation. List the different methods that are called when fragment transits from one state to another.	10M
	(b)	Write a Java code to i) Pass Data Using an Intent Object ii) display a progress dialog	10M
		Module – 5	
Q.9	(a)	What are the different layouts available to design user interface of an Android Applications? Justify the use of each layout.	10M
	(b)	Write a Java Code to build a Quiz Application by using RadioGroup Class. Consider a suitable view for designing the front end.	10M
		OR	
Q.10	(a)	With the relevant code snippet, explain the use of following views i) Checkbox ii) ToggleButton iii) ImageButton iv) EditText	10M
	(b)	Demonstrate how CRUD operations can be performed prgorammatically in Android application	10M

Table showing the Bloom's Taxonomy Level, Course Outcome and Programme Outcome

Question		Bloom's Taxonomy Level attached	Course Outcome	Programme Outcome
Q.1	(a)	L1	CO1	PO1
	(b)	L2	CO1	PO1
	(c)	L3	CO1	PO1
Q.2	(a)	L4	CO4	PO2
	(b)	L1	CO1	PO2
	(c)	L1	CO1	PO2
Q.3	(a)	L2	CO1	PO3
	(b)	L2	CO1	PO3
Q.4	(a)	L4	CO4	PO3
	(b)	L2	CO1	PO3
Q.5	(a)	L3	CO2	PO3
	(b)	L4	CO4	PO4
	(c)	L1	CO2	PO3
Q.6	(a)	L1	CO2	PO5
	(b)	L2	CO2	PO6
Q.7	(a)	L2	CO2	PO9
	(b)	L2	CO2	PO12
	(c)	L3	CO2	PO5
Q.8	(a)	L3	CO4	PO6
	(b)	L4	CO2	PO9
Q.9	(a)	L3	CO3	PO9
	(b)	L3	CO3	PO4
Q.10	(a)	L3	CO3	PO5
	(b)	L3	CO3	PO12

Bloom's Taxonomy Levels	**Lower order thinking skills**		
	Remembering(knowledge):L_1	Understanding Comprehension): L_2	Applying (Application): L_3
	Higher order thinking skills		
	Analyzing (Analysis): L_4	Valuating (Evaluation): L_5	Creating (Synthesis): L_6