

JK Lakshmipat University Jaipur
INSTITUTE OF ENGINEERING AND TECHNOLOGY

End Term Examination, April 2024

BCA, Semester-V

Roll No.....

Course Code: CS1205

Time: 2 hours

Max. Marks: 30

Course Name: Mobile Application Development

Instructions to students:

1. Do not write anything other than your roll number on question paper.
2. Assume suitable data wherever required and mention it clearly.

Q 1	A. Briefly define the functions of the four layers of Android System architecture.	02
	B. Show the inheritance hierarchy of common views and layout with a clear diagram.	02
	C. How are relative layouts different from the linear layouts in Android system.	02
		CO 1
		CO 2
		CO 2
Q 2	A. Using separate programs in Kotlin implement the following array functions explaining its utility. i) reduce (). ii) filter (). iii) shuffle ().	03
	B. How do you declare and initialize a 2D array in Kotlin with and without using array constructor. Show with examples.	03
		CO 3
		CO 3
Q3	A. How do you make a class inheritable in kotlin? Show with an example	02
	B. "There is a special case of using only secondary constructor but no primary constructor" -Justify for application in Kotlin.	02
	C. How is default implementation of interface applied in Kotlin? Show with an example.	02
		CO 3
		CO 3

Q4	A. Name the four states of an activity life cycle used in Android system. B. Differentiate among the following launch modes for activities: i) Standard ii) singleTop iii) singleTask iv) singleInstance	02 04 CO 4 CO 6
Q5	A. How do you create database using SQLite in two different modes? B. How do you use direct SQL to implement following function using SQLite database to develop Android applications. i) Insert data in a table. ii) Update data in a table. iii) Delete data from a table. iv) Query data from a table.	02 04 CO 6