

JK Lakshmipat University Jaipur
INSTITUTE OF ENGINEERING AND TECHNOLOGY

End Term Examination, May ,2025

B. Tech (CSE), Semester VI

Roll No.....

Course Code: CS1205

Time: 2.5 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. State the significance of the use of emulator for mobile application development.	02
		02
	B. How is linear layout different from the relative layout in developing applications in Android?	03
	C. "View is the most basic and fundamental UI component in Android." – justify using the view class hierarchy.	CO 1 CO 4
Q 2.	A. Define the methods to be overridden for implementing a data class with a proper example in Kotlin.	02
	B. State the properties of singleton class – which makes it distinct from the other classes.	03 CO 3
Q 3.	A. "We can call Java methods in Kotlin using functional APIs with certain limitations." – what are the limitations explain with an example?	02
		02
	B. State the difference between the use of (?) and (!!) operator with a suitable example in Kotlin.	
	C. Explain de-structuring of Lambda in Kotlin programs with a suitable example.	02 CO 3

Q 4.	A. You developed an activity named First_Activity and a layout named First_Layout_one. Write the program in Kotlin to mount this layout to the activity developed. B. State how the back stack is deployed for managing activities. C. How is singleInstance mode used for launching of activities?	03 02 02 CO 4 CO 6
Q 5.	A. Show the implementation of abstract and concrete classes being used in DART with a suitable example. (use a single code). B. How are the interfaces implemented in DART? Why are they different from Kotlin?	02 03 CO 2 CO 3