**ST. JOSEPH’S COLLEGE (AUTONOMOUS), BENGALURU -27**

Registration Number:

Date & Session

**BCA - VI SEMESTER**

**SEMESTER EXAMINATION: APRIL 2024**

**(Examination conducted in May / June 2024)**

**CADE 6423 – MOBILE APPLICATION DEVELOPMENT**

**(For current batch students only)**

**Time: 2 Hours Max Marks: 60**

**This paper contains TWO printed pages and THREE parts**

**PART-A**

Answer **ALL** the following questions: (5 x 2 = 10)

1. List out the contents of app module in Android Studio.
2. Write the syntax for calling an Intent.
3. Write the use of onCreate() and onPause() methods in Activity life cycle.
4. Distinguish between information widget and control widget in android.
5. Examine the use of cursor in SQLite.

**PART – B**

Answer any **FIVE** of the following questions: (5 x 4 = 20)

1. What is a Toast message? Construct a Java Class for 'Toast' command with proper syntax.
2. Describe the Android architecture in detail.
3. How can we send data from one activity to another in android? Explain with an example.
4. Explain the design guidelines to be considered while developing a widget in android.
5. How do SQLite provide database features with a compressed library?
6. How do we extract values from a cursor with an example?
7. Describe the following with suitable example:
   1. Checkbox
   2. Radio Button
   3. Toggle
   4. EditText

**PART – C**

Answer any **THREE** of the following: (3 x 10 = 30)

1. a. Explain activity lifecycle with a neat flow diagram. (6m)

b. Summarize the usage of any two specialized fragments in Android application with example. (4m)

1. Create an android application to increment and decrement a number with proper UI design and discuss XML and Java perspectives of the same.
2. a. Write the steps for adding audio in Android Application. (3m)

b. With an example explain how errors are handled in android studio? (7m)

1. a. What do you mean by shared preferences. Explain with an example. (6m)

b. Write the importance of Transaction in SQLite database. (4m)