

VADODARA INSTITUTE OF COMPUTER APPLICATION
BE , Semester–VII, Mid Semester Examination –summer 2025

Subject: MAD**Discipline: BE****Subject code: 3170726****Date: 15/10/2025****Time: 10.30pm to 1.00pm****Total Marks: 70****Instructions: All questions are compulsory.**

Q-1 Answer the following Questions

- (a) Differentiate between JVM and DVM. **03**
- (b) Draw and explain Activity lifecycle of android application in detail. **04**
- (c) Write difference between Table Layout and Frame Layout. **07**

Q.2 (a) Explain Content provider. **03**

- (b) Write a brief note on android Architecture with proper diagram. **04**
- (c) Describe shared preference with example **07**

OR

- (c) Write the steps for CRUD operation to use Firebase database in android application. **07**

Q.3 Answer the following Questions

- (a) What is Geocoding and Reverse Geocoding? Explain it with example **03**
- (b) Write a code to insert product information (pid, pname, pcategory, pprice) in SQLite database. **04**
- (c) What is Broadcast Receiver in android. Explain in brief. **07**

Q.3 OR

- (a) Explain Recycler View and Card View in android with example. **03**
- (b) Explain Location Service in Android with Example. **04**
- (c) Write a code to get current location & display it in text view. **07**

Q.4 Answer the following Questions

- (a) What is Service? Discuss various Service life cycle methods in detail. **03**
- (b) Explain Intent and Fragment in details **04**
- (c) Explain Dalvik debug tool and ADB in Android **07**

OR**Q.4 (a) Briefly explain AsyncTask loader. **03****

- (b) List and explain components of Android SDK. **04**
- (c) What is parsing? Discuss how you can perform parsing using JSON in an Android application. **07**

Q.5 Answer the following Questions

- (a) How many ways data stored in Android? **03**
- (b) Write short notes on Material Design components such as Toolbar and TabLayout. **04**
- (c) Explain Checkbox **07**

OR

- (a) Explain Versions in Android. **03**
- (b) What is the significance of Spinner in Android App? **04**
- (c) What is Media Player in android? Explain how to play audio using Media Player. **07**