

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

Subject: MAD**Date: 15/10/2025****Discipline: BE****Time: 10.30pm to 1.00pm****Subject code: 3170726****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 (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