

QP CODE: 24800361



Reg No :

Name :

I.M.C.A DEGREE EXAMINATION, DECEMBER 2023

Sixth Semester

Faculty of Technology & Applied Science

Integrated MCA

CORE - IMCA6E02A - ANDROID PROGRAMMING

2020 Admission Onwards

BA12D0E9

Time: 3 Hours

Maximum: 75 Marks

Part A

*Answer any **ten** questions*

*Each question carries **3** marks*

1. What are Native Libraries in the Android system, and how do they enhance the functionality of Android applications.
2. Write a short note on the goal of Dalvik VM.
3. Write a short note on DVM.
4. What is Table layout?
5. Explain the primary function of a TextView in an Android user interface.
6. How does an AutoCompleteTextView enhance user interaction in an Android application's text input field?
7. What is meant by Android activity.
8. How are multimedia elements, such as audio and video, integrated into the user interface of Android applications?
9. What are the primary components required for building an image gallery app in Android?
10. Explain the basic steps involved in capturing images from the camera within an Android application.
11. How is cursor movement managed while extracting data from a database query in Android?





12. Write a short note on publishing the app in Android.

(10×3=30 marks)

Part B

Answer all questions

Each question carries 9 marks

13. a) Explain about Android history in versions and explain about versions and features.

OR

b) What is Android emulator. Explain in detail using the Android Emulator in Android Studio.

14. a) How AbsoluteLayout, RelativeLayout, and FrameLayout is adapted across different Android devices for responsive design, discussing their roles and challenges in creating adaptable user interfaces.

OR

b) Elaborate the working of RadioButton , RadioGroup, Spinner in Android programming.

15. a) What is android activity. Explain in detail activity life cycle.

OR

b) Explain multimedia component Play audio and video, Text to speech.

16. a) Designing animations in XML in Android programming.

OR

b) Explain Capturing images in Android system.

17. a) How does user interaction with GPS-based features and Google Maps enhance the overall app experience?

OR

b) Explain how to create a publishable APK (Android Package) file for your Android app.

(5×9=45 marks)

