**QP CODE: 25803227**

25803227

**Reg No :** .....

**Name :** .....

# I.M.C.A DEGREE EXAMINATION , SEPTEMBER 2025

## Sixth Semester

Integrated MCA

## Elective - IMCA6E02A - ANDROID PROGRAMMING

2020 Admission Onwards

B5689D50

Time: 3 Hours Maximum: 75 Marks

### Part A

*Answer any **ten** questions*

*Each question carries **3** marks*

1. Name three components that define the Android ecosystem.
2. What is Java JDK?
3. What are Android virtual devices?
4. Name different types of layouts.
5. Explain the fundamental role of a CheckBox in providing user interaction within an Android application.
6. How does an ImageButton differ from a regular Button component in an Android application's user interface?
7. Write a short note a real-world UI in android programming.
8. What is meant by Intent?
9. Explain how XML is connected with Android programming.
10. How is Java code related with Android programming?
11. How can users interact with Google Maps within an Android application?
12. Describe .apk file in Android.

(10×3=30 marks)

## Part B

*Answer **all** questions*

*Each question carries **9** marks*

13. a) Explain the features of Android, Android architecture.

**OR**

b) Explain about Android SDK and Android installation.

14. a) Discuss about TextView,Button, ImageButton.

**OR**

b) Elaborate the working of Spinner, ListView, GridView,in Android programming.

15. a) Describe how the Android activity lifecycle impacts user experience and strategies for ensuring seamless transitions.

**OR**

b) Explain in detail Multimedia in android system.

16. a) Explain Animations in Android and different types of animations.

**OR**

b) Discuss Instantiating animations and controlling them with Java code.

17. a) Discuss in detail about SQL lite Database.

**OR**

b) Discuss about building the publishable apk file, publishing the app in Android system.

(5×9=45 marks)