

Roll No. :

Total No. of Questions : 16]

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PSJA-4054

M.Sc. Computer Science (IVth Semester)

Examination, June-2025

ANDROID PROGRAMMING

Paper - FS-COMP-MS-C-CC-402

Time : 3 Hours] *श्री जैन (पी. ए.) कॉलेज, गीरगुजरा* *[Maximum Marks : 40*

The question paper contains three Sections.

Section-A

(Marks : 1 × 10 = 10)

Note :- The candidate is required to answer all the *ten* questions carries 1 mark each. The answer should not exceed **50** words.

Section-B

(Marks : 3 × 5 = 15)

Note :- The candidate is required to answer *five* questions by selecting at least *one* question from each Unit. Each question carries **3** marks. Answer should not exceed **200** words.

Section-C

(Marks : 5 × 3 = 15)

Note :- The candidate is required to answer *three* questions by selecting at least *one* question from each Unit. Each question carries **5** marks. The answer should not exceed **500** words.

Section-A

1. (i) What is the purpose of the Android SDK Manager ?
- (ii) What is an Android Virtual Device (AVD) used for ?
- (iii) What does the package structure in Android represent ?
- (iv) What is the use of an Adapter in Android ?
- (v) Which view is used to display text in Android ?
- (vi) What is a Relative Layout ?
- (vii) What is a Tabular Layout used for ?
- (viii) What is an Activity in Android ?
- (ix) What is the purpose of a RadioGroup in Android ?
- (x) What is a Spinner used for in Android ?

Section-B

Unit-I

2. What is Android, and why is it popular for mobile application development ?
3. Explain the role of Gradle in building and running Android applications.
4. Describe the main features and benefits of Android Studio.

Unit-II

5. What is SQLite Database in Android, and how is it used for data storage ?
6. What is a Toast message, and how is it different from a Notification ?
7. Differentiate between RadioButton, CheckBox, and RadioGroup in Android.

Unit-III

- 8 Explain the difference between margin and padding in Android views with examples
- 9 Explain the role and types of Intents in Android.
- 10 What is an AutoComplete TextView, and when should it be used ?

Section-C

Unit-I

11. Explain the Android Architecture in detail, describing each layer and its components.
12. Write the steps to run an Android application and describe common issues faced during execution.

Unit-II

13. What is a TextView in Android ? Explain its purpose, properties, and give an example of how to use it ?
14. Explain the purpose and functionality of Button, ImageView, and ImageButton views with code examples.

Unit-III

15. Describe the methods to send an Email, SMS, and make a Phone Call from an Android application, including the permissions required.
16. What are Fragments in Android ? Explain their lifecycle, advantages, and steps to work with them in an application.