

PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)
BSc DEGREE EXAMINATION DECEMBER 2024
(Fifth Semester)

Branch – COMPUTER SCIENCE
MOBILE APPLICATION DEVELOPMENT

Time: Three Hours

Maximum: 50 Marks

SECTION-A (5 Marks)

Answer ALL questions

ALL questions carry EQUAL marks (5 x 1 = 5)

- 1 What is Android?
(i) A web browser (ii) An operating system for mobile devices
(iii) A DBMS (iv) A programming language
- 2 How can you create a new Button programmatically in Android?
(i) Button button = new Button();
(ii) Button button = new Button(this);
(iii) Button button = findViewById(R.id.button);
(iv) Button button = new Button(context);
- 3 Which of the following is used to display a user input field in Android?
(i) TextView (ii) Button
(iii) ImageView (iv) EditText
- 4 Choose the URI format commonly used for sharing data using ContentProvider.
(i) http:// (ii) file://
(iii) content:// (iv) ftp://
- 5 _____ programming language is primarily used for developing Flutter applications.
(i) Java (ii) JavaScript
(iii) Python (iv) Dart

SECTION - B (15 Marks)

Answer ALL Questions

ALL Questions Carry EQUAL Marks (5 x 3 = 15)

- 6 a Write down the steps for Installing Android SDK Tools.
OR
b Explain the various phases of Mobile Application Development Life Cycle.
- 7 a How to create and display notifications in Android?
OR
b Discuss about adding action items to the action bar.
- 8 a Difference between basic views and picker views.
OR
b List the features of firebase.

Cont...

- 9 a Show how to access SMS Messages using a Content Provider?
OR
b Explain the different methods to send Email in Android.
- 10 a Summarize the different types of animations available in Flutter.
OR
b Show how to transfer data between screens in Flutter.

SECTION -C (30 Marks)

Answer ALL questions
ALL questions carry EQUAL Marks (5 x 6 = 30)

- 11 a What are the alternatives for building Mobile Apps? Explain any two of them.
OR
b List out the Mobile Application Services and discuss it.
- 12 a Discuss about linking activities using Intents.
OR
b Write down the steps to create and use Fragments.
- 13 a How to populate a ListView with Data? Explain it with relevant examples.
OR
b Illustrate the concept of saving and loading user preferences.
- 14 a Explain the different ways to share data between Android applications.
OR
b Show how to integrate location data with Google Maps.
- 15 a Distinguish between StatefulWidget and StatelessWidget in Flutter.
OR
b Implement the common layout patterns in Flutter.

Z-Z-Z

END