

Code No: 156BW**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD****B. Tech III Year II Semester Examinations, July - 2023****MOBILE APPLICATION DEVELOPMENT****(Common to CSE, IT, CSBS, CSIT, CSE(CS), CSE(AI&ML), CSE(DS))****Time: 3 Hours****Max. Marks: 75**

- Note:** i) Question paper consists of Part A, Part B.
ii) Part A is compulsory, which carries 25 marks. In Part A, Answer all questions.
iii) In Part B, Answer any one question from each unit. Each question carries 10 marks and may have a, b as sub questions.

PART – A**(25 Marks)**

- 1.a) How to create an AVD? [2]
- b) Illustrate the Android SDK Features. [3]
- c) What is Fragment Manager? [2]
- d) Summarize the Android UI Fundamentals? [3]
- e) What is Notification Manager? [2]
- f) Distinguish between Implicit and Explicit Intents. [3]
- g) What methods are used for Android Application File Cache? [2]
- h) How to save application data for Android Applications? [3]
- i) What are the advantages of Content Provider? [2]
- j) Illustrate the characteristics of SQLite Database. [3]

PART – B**(50 Marks)**

- 2.a) Analyze the application services of Android Application Architecture.
 - b) Discuss the Android Development Tools. [5+5]
- OR**
- 3.a) Discuss the Android Application Components in detail.
 - b) Explain the application Manifest file in Android Project with example. [5+5]
- 4.a) Identify the Layout classes available in Android SDK.
 - b) Discuss how to add, remove and replace Fragments using fragment transactions. [5+5]
- OR**
- 5.a) Develop a To-Do List Application using Android Views and Layouts.
 - b) Explain about Interfacing between Fragments and Activities. [5+5]
- 6.a) Explain Native Android Actions that use Intents to launch various activities.
 - b) Discuss about Creating Notifications in Android Development. [5+5]
- OR**
- 7.a) How to use Intents to Broadcast Events in Android Development? Explain.
 - b) Create Notifications that are using Default Notification Sounds and Vibrations. [5+5]

- 8.a) Explain about Creating and Saving Shared Preferences in Android Applications.
b) Analyze, how to store files using Application-Specific folders in Android development. [5+5]

OR

- 9.a) Identify the Data-Persistence techniques for Android Applications.
b) Write the importance of File-Management Tools in Android Development. [5+5]

- 10.a) Develop a code snippet for Inserting and Deleting records using Content Provider.
b) Discuss about Querying a Database for Android SQLite. [5+5]

OR

- 11.a) Analyze, how to extract values from a Cursor in Android SQLite.
b) Explain Implementing the SQLite Queries within a Content Provider. [5+5]

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Use Paper July/Aug-2023