

Code No: 874AB**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD****MCA IV Semester Examinations, March/April - 2023****MOBILE APPLICATION DEVELOPMENT****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) List various the applications of Android operating system. [5]
- b) What is fragment? Explain its purpose. [5]
- c) Describe intent filter in detail. [5]
- d) Demonstrate Android class to create a user define file. [5]
- e) Write the features of SQLite database. [5]

PART – B**(50 Marks)**

- 2.a) Describe the layered architecture of Android.
 - b) Write the best practices in Android programming. [5+5]
- OR**
- 3.a) What is Android manifest file? Describe its elements.
 - b) What are the different events of Activity class and explain it briefly. [5+5]
- 4.a) Explain life cycle of fragment.
 - b) Describe grid layout in Android with an example program. [5+5]
- OR**
- 5.a) Create Dialog fragment in Android.
 - b) What is spinner? Explain spinner view in Android in detail. [5+5]
- 6.a) Write the steps to create an intent in Android.
 - b) Explain how data is passed to intent. [5+5]
- OR**
- 7.a) Give the android code to dial a number.
 - b) How do you notify an activity from a broad cast receiver in Android? [5+5]
- 8.a) Discuss about sharing data in android.
 - b) Write Android program to read data from file. [5+5]
- OR**
- 9.a) Describe preference activity class in detail.
 - b) Display preference of your application using an activity. [5+5]
- 10.a) Explain DBAdapter Helper class in detail.
 - b) Design a student table to insert records from Android. [5+5]
- OR**
- 11.a) Explain Content Provider class.
 - b) Display the data from a database table using Content Provider. [5+5]