

**TILAK MAHARASHTRA VIDYAPEETH, PUNE**  
**MASTER OF COMPUTER APPLICATIONS**  
**EXAMINATION : DECEMBER - 2023**  
**SEMESTER - III**

**Sub : Mobile Applications Development (MCA- 304-22)**

**Date : 14/12/2023**

**Total Marks : 60**

**Time: 10.00 am To 12.30 pm**

**Instruction:**

1. All questions are compulsory unless and otherwise stated.
2. Bold figures to the right of every question are the maximum marks for that question.
3. Candidates are advised to attempt questions in order.
4. Answers written illegibly are likely to be marked zero.
5. Use of scientific calculators, Log tables, Mollier Charts is allowed.
6. Draw neat and labelled diagram wherever necessary.

**Q. 1. Answer the following in 2 - 3 lines. (Any 5) (10)**

1. Differentiate between emulator and simulator.
2. What is dex file?
3. What is the significance of manifest file?
4. Which file is used to install android application?
5. What is view and view group?
6. State the role of gradle.
7. What do you mean by intent?

**Q. 2. Answer the following in short. (Any 4) (20)**

1. Explain android folder structure?
2. List components of android.
3. Write down the program for passing and displaying username from one activity to another.
4. What is the use of rawquery() and getwritabledatabase()?
5. Write down the program to display list of names in spinner.(use array adapter)
6. Explain Layouts in android.

**Q. 3. Answer the following in detail. (Any 3) (30)**

1. Explain fragment lifecycle with diagram.
2. Write a program to display image of rose and lotus in imageview after selecting the flower name from listview.
3. What is activity? Explain methods of life cycle of activity with diagram.
4. Explain android architecture in detail with diagram.
5. Write down the program to create Context and option menu.

-----