



*R20 Regulation* *Subject code: 3E7EF*  
**TKR COLLEGE OF ENGINEERING AND TECHNOLOGY**  
 (Autonomous, Accredited by NAAC with 'A+' Grade)

**B.Tech VII Semester Regular/Supplementary Examinations, December 2024**

**MOBILE APPLICATION DEVELOPMENT  
(CSE)**

**Maximum Marks: 70**

**Date: 07.01.2025**

**Duration: 3 hours**

- Note:**
1. This question paper contains two parts A and B.
  2. Part A is compulsory which carries 20 marks. Answer all questions in Part A.
  3. Part B consists of 5 Units. Answer any one full question from each unit which carries 10M.
  4. Each question carries 10 marks and may have a, b, c, d as sub questions.

**Part-A**

All the following questions carry equal marks		(10X2M=20 Marks)	CO	Bloom Tx
1	List out any two Android Tools.		1	L1
2	Identify the any two callbacks of Activity class.		1	L2
3	What are Layouts supported by Android?		2	L1
4	Give an example event listener and handler in Android.		2	L1
5	Define intent.		3	L2
6	What are implicit intents?		3	L1
7	How to register content providers?		4	L1
8	Write syntax to create table in SQLite database.		4	L1
9	Identify any two key benefits of developing applications for the iOS platform.		5	L1
10	Write any two differences between Objective-C and other object-oriented programming languages like Java.		5	L1

**Part-B**

Answer All the following questions.		(5X10M=50Marks)	CO	Bloom Tx
11	A. Analyze the architecture of the Android Operating System, explaining how its design and features support mobile application development. (5M) B. Analyze the importance and purpose of Android manifest file. (5M)		1	L4
OR				
12	A. Illustrate steps in Installing and running applications on Android Studio. (5M) B. Analyze the Life cycle of android application. (5M)		1	L4
13	A. Design a simple Android Application which consist of at least three UI components. (5M) B. Describe event handling mechanism with example. (5M)		2	L3
OR				
14	A. Illustrate the usage of intents and activities in fragments with example. (5M) B. Explain Fragment life cycle in detail with neat diagram. (5M)		2	L3

15	A. Examine the process of using Intent to dial a number or to send SMS in detail. (5M) B. Describe how an Activity can return results to a previous Activity using startActivityForResult for Result and onActivityResult. (5M)	3	L3
OR			
16	A. Describe the various types of notifications and discuss best practices for designing effective notifications. (5M) B. Explain different intent types? Give an example (5M)	3	L3
17	A. Describe various ways of using content providers in database transactions (5M) B. Analyze the way to persist information in an android device. (5M)	4	L4
OR			
18	A. Illustrate the procedure of database connection using sqlite with example (5M) B. Evaluate the advantages and disadvantages of using file storage, Shared Preferences, and SQLite databases in Android. (5M)	4	L4
19	A. Discuss the importance of memory management in Objective-C. (5M) B. Demonstrate how Objective-C uses headers and classes. (5M)	5	L3
OR			
20	A. Discuss how Objective-C's syntax supports object-oriented programming concepts. (5M) B. Explain iOS App Development Essentials in detail (5M)	5	L3