

GYANMANJARI INNOVATIVE UNIVERSITY

GYANMANJARI INSTITUTE OF TECHNOLOGY

B.Tech.-Mid Semester Examination (MSE)-W2025

Enrollment No.: _____

Subject Code: BETCE15317

Date: 15-09-2025

Subject Name: Advance Mobile Application Dev.

Semester: 5th

Time: 02:30 PM to 04:30 PM

Total Marks: 60

Instructions:

1. Question No. 1 is compulsory.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.

	Marks
Q.1 (a) Define web service? Why do we need it? Explain JSON parsing in Android with a suitable example.	05
(b) What is the purpose of Retrofit library in web services? Give example.	05
(c) Write an Android program to design a login page where the username must be android and the password must be admin. If both are correct, display a "Welcome" Toast message, otherwise display "Invalid Credentials".	10
Q.2 (a) Write a short note on Resources and Assets in Android (Colors, Strings, Styles) with example.	05
(b) List out Loops in Kotlin. Explain For loop with suitable examples.	05
OR	
(b) Differentiate between when and if statements in Kotlin with examples.	05
(c) Explain the use of Text-to-Speech (TTS) API in Android with example.	10
OR	
(c) Create an Android app that captures image using camera and displays it.	10
Q.3 (a) Describe "when" expression in Kotlin switch suitable example.	05
(b) What is Dalvik Debug tool? Give brief note on it.	05
(c) How do you generate and publish a signed APK?	10
OR	
Q.3 (a) Describe expression and its type in Kotlin with one example.	05
(b) How do you use Logcat for debugging Android apps?	05
(c) Explain APK signing in Android. Write the steps to generate and sign an APK.	10