

GYANMANJARI INNOVATIVE UNIVERSITY

GYANMANJARI INSTITUTE OF TECHNOLOGY

B.Tech.-Mid Semester Examination (MSE)- S2026

Enrollment No.: _____

Subject Code: BETCE16330

Date: 27/03/2026

Subject Name: Android Development Framework

Semester: 6th

Time: 02:30 P.M. to 04:30 P.M.

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) Explain Flutter framework and its advantages for cross-platform mobile application development.	05
	(b) Explain inheritance and polymorphism concepts in Dart.	05
	(c) Describe Flutter architecture with proper explanation of its main components.	10
Q.2	(a) Differentiate between Stateless and Stateful widgets with example.	05
	(b) Describe Stack widget and its use cases in Flutter UI.	05
	OR	
	(b) Explain Checkbox and Switch widgets with example.	05
	(c) Explain layout widgets used for building complex UI structures.	10
	OR	
	(c) Explain Container widget properties such as padding, margin, and decoration.	10
Q.3	(a) Explain initState() and dispose() with use cases.	05
	(b) Explain different testing approaches in Flutter.	05
	(c) Explain Provider architecture and its working principle.	10
	OR	
Q.3	(a) Explain named routes and their advantages.	05
	(b) Why are custom widgets important for large Flutter applications?	05
	(c) Explain the lifecycle of a Stateful widget.	10