QP Code: RA22BTECH438 | Reg. No | | | | | | | | | | | AR21/22

Gandhi Institute of Engineering and Technology University, Odisha, Gunupur
(GIET University)

B. Tech (Sixth Semester – Regular/Supplementary) Examinations, April 2025

21BCSOE36011/22BCSOE36011 – Android App Development using Kotlin

(CSE, CSE(AIML), CSE(DS))

Time: 3 hrs | Maximum: 70 Marks

Answer ALL questions

(The figures in the right hand margin indicate marks)

PART – A **(2 x 5 = 10 Marks)**

Q.1. Answer ***ALL*** questions	CO #	Blooms Level
a. Demonstrate the use of elvis operator for null safety.	CO 1	K2
b. Differentiate between a class and Data Class	CO 1	K3
c. Explain Fragment in Android App.	CO 2	K2
d. Explain the need of Recycler View in Kotlin	CO 3	K3
e. Explain the real time Database?	CO 4	K2

PART – B **(15 x 4 = 60 Marks)**

Answer ***all*** the questions	Marks	CO #	Blooms Level
2. a. Explain the key features of Kotlin.	8	CO1	K2
b. Demonstrate Single inheritance in Kotlin with a suitable example.	7	CO1	K3
(OR)			
c. Explain the Object Oriented Concept supported in Kotlin.	8	CO1	K2
d. Demonstrate Higher Order Function in Kotlin with a suitable Example.	7	CO1	K3
3.a. Explain android Architecture with neat diagram .	8	CO1	K2
b. Create an Android app in Kotlin where the user can input student details using EditText, select gender using RadioButton, and submit the form using a Button. When the user clicks the button, display the entered information in a TextView.	7	CO1	K4
(OR)			
c. Explain the activity life cycle with callback functions in Android Application.	8	CO1	K2
d. Create an app that lets users select their favourite programming language from a list and display the selection when a button is clicked.	7	CO1	K4
4.a. Create an Android application using Kotlin that implements all types of menus with submenus.	15	CO1	K3
(OR)			
b. Explain different types of Intent and Create an Android application having Button to call the different types of Intents.	15	CO1	K3
5.a. Design a simple Android app that stores user contact information (name, phone number, email) using SQLite.	8	CO1	K4
b. Design an Android application where multiple user preferences (e.g., username, language, and notifications enabled) are saved using SharedPreferences.	7	CO1	K4
(OR)			
c. Build an Android app that stores user feedback in Firebase's Realtime Database.	8	CO1	K4
d. Explain the process of storing data in SharedPreferences and retrieving it in another activity.	7	CO1	K4

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