



GIET UNIVERSITY, GUNUPUR - 765022

B. Tech (Sixth Semester Regular) Examinations, May - 2024

21BCMOE36001/21BCSOE36001/21BCDOE36001

Android App Development using Kotlin

(CSE,CSE(AI ML),CSE(DS))

Time: 3 hrs

Maximum: 70 Marks

(The figures in the right hand margin indicate marks)

PART – A

(2 x 5 = 10 Marks)

Q.1. Answer **ALL** questions

- What is a Toast? Write its syntax.
- What do you mean by adapter?
- Differentiate between Activity and Fragment.
- What do you mean by intent? Explain different types of intent.
- What do you mean by companion object? Give an example.

CO #	Blooms Level
CO2	K1
CO2	K2
CO3	K2
CO2	K1
CO1	K1

PART – B

(15 x 4 = 60 Marks)

Answer **ALL** questions

- Write a code in Kotlin to implement function overloading for finding the area of circle, rectangle and triangle.
- Explain all features of Kotlin.

Marks	CO #	Blooms Level
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8	CO1	K2
7	CO1	K2

(OR)

- Write a code in Kotlin to print all Armstrong numbers in between 100 to 500.
- What do you mean by inheritance? Explain with suitable example(program).
- Describe layered architecture of android with suitable diagram.
- Create an android application to enter 2 numbers and display the result on button click.

8	CO1	K2
7	CO1	K2
8	CO2	K2
7	CO2	K2

(OR)

- Describe android app file structure in Android studio.
- Write an android program to change the layout background colour using radio button (use minimum 3 buttons).
- Explain MVC, MVP and MVVM app architecture.
- Create an android application having 3 fragments named Loginfragment, Registerfragment and Homefragment. Loginfragment have 2 buttons named Login and Register. On successful login, Homefragment will open and on clicking the Register button, Registerfragment will open.

8	CO2	K2
7	CO2	K2
7	CO3	K2
8	CO3	K2

(OR)

- What do you mean by fragment in android? Describe fragment life cycle.
- Write an android program to create a registration activity to enter name, email id, mobile number with proper validation.
- List the steps to connect android app with SQLite database.
- Explain with suitable example the use of shared preference in android programming.

8	CO3	K2
7	CO3	K2
7	CO4	K2
8	CO4	K2

(OR)

- Describe different types of menu in android. Write down the steps to create option menu Android.
- Write down an android program to store employee data like empno, name, department, designation in SQLite database.

8	CO4	K2
7	CO4	K2

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