



PAPER ID-410668

Printed Page: 1 of 1
Subject Code: KCA044

Roll No:

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MCA
(SEM IV) THEORY EXAMINATION 2023-24
MODERN APPLICATION DEVELOPMENT

TIME: 3 HRS**M.MARKS: 100**

Note: 1. Attempt all Sections. If require any missing data; then choose suitably.

SECTION A

1. Attempt all questions in brief.

a.	What are classes and objects in Kotlin?	2
b.	What are generics in Kotlin?	2
c.	What are views in android?	2
d.	What are resources in android?	2
e.	What is data binding in android?	2
f.	Explain SQLite database.	2
g.	Explain the file handling in android.	2
h.	What is HTML parsing in android?	2
i.	What is Ad Mob?	2
j.	Explain Firebase.	2

SECTION B

2. Attempt any three of the following:

a.	What is Kotlin and how it is differ from other programming languages?	10
b.	How the different types of layouts in differ from each other?	10
c.	What is the different way of storing data in android application?	10
d.	Why asynchronous task is important in mobile app development?	10
e.	Discuss the role of permission in android app security.	10

SECTION C

3. Attempt any one part of the following:

a.	Explain the basic syntax of Kotlin with examples.	10
b.	What are properties and fields in Kotlin and how do they differ from each other?	10

4. Attempt any one part of the following:

a.	What is the activity life cycle in android?	10
b.	How do resources work in android? Explain the benefits of using them.	10

5. Attempt any one part of the following:

a.	How shared preferences work in android applications?	10
b.	What is the MVVM architecture? How does it differ from other common architecture used in android development?	10

6. Attempt any one part of the following:

a.	What is JSON parsing? How is it used in android app development?	10
b.	What are coroutines in android? How they are different from other traditional threading approaches?	10

7. Attempt any one part of the following:

a.	How the Firebase can be used to enhance the security and performance of an android apps?	10
b.	Why APK signing is important for app security?	10