UPTU Notes

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Paper Id: 2 1 4 4 2 6 Roll No. [redacted]

MCA

(SEM IV) THEORY EXAMINATION 2017-18

Design & Development of Applications

Time: 3 Hours *Total Marks: 70*

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

SECTION A

1. Attempt *all* questions in brief. 2 x 7 = 14

a. What is Android ? List its features.
b. Explain various Triggers.
c. What do you understand by Widgets.
d. What is parsing ?
e. Differentiate between Grid View & Web View.
f. What is Google Cloud Messaging (GCM) ?
g. Differentiate between Explicit Intent & Implicit Intent.

SECTION B

2. Attempt any *three* of the following: 7 x 3 = 21

a. Draw and explain Activity life cycle of Android Application .
b. List and explain various UI controls provided by Android.
c. Write a note on scheduling and optimizing background Tasks.
d. Discuss the steps in storing data in your application using SQLilte.
e. Discuss the procedure of publishing Android Application.

SECTION C

3. Attempt any *one* part of the following: 7 x 1 = 7

(a) Describe the Android Architecture.
(b) What is the use of an activityCreator? Differentiate Activities from Services.

4. Attempt any *one* part of the following: 7 x 1 = 7

(a) Explain various Layouts provided by Android.
(b) Explain following tools to test android applications.

1) JUnit
2) Monkey

5. Attempt any *one* part of the following: 7 x 1 = 7

(a) What is Notification. Write the steps to create the Notification in Android application.

(b) Define and differentiate between the two types of services. How to run the service even after killing the application in android?

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6. **Attempt any *one* part of the following:** **7 x 1 = 7**

(a) What is SQLite database? How to provide database connection using SQLite database.

(b) How to adding, updating and deleting content in android application.

7. **Attempt any *one* part of the following:** **7 x 1 = 7**

(a) Explain types of application and create any small application in android.

(b) What is Android Support Library. Describe its Features.

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