C.U.SHAH UNIVERSITY
Winter Examination-2019

Subject Name: Mobile Apps Development using Android

Subject Code: 4CS05IAN1   **Branch: B.Sc.I.T.**

Semester: 5   **Date: 10/10/2019**   **Time: 02:30 To 05:30**   **Marks: 70**

Instructions:
    (1) Use of Programmable calculator & any other electronic instrument is prohibited.
    (2) Instructions written on main answer book are strictly to be obeyed.
    (3) Draw neat diagrams and figures (if necessary) at right places.
    (4) Assume suitable data if needed.

Que-1 Attempt all the following short questions.   **[14]**

    1. Give the full form of DVM.
    2. Define android.
    3. What is OHA?
    4. Give the full from of API.
    5. Which is the default database for android?
    6. Which folder holds the R.java file?
    7. Explain AndroidManifest.xml file.
    8. Explain android:id and android:textStyle attributes of TextView.
    9. What is the use of android:orientation attribute of CheckBox control?
    10. What is implicit intent?
    11. Which method of NotificationCompat.Builder class is used to set title for notification?
    12. Give full form of GPS.
    13. Which storage device is used to store data in pairs of key-value?
    14. Which class is used to issue a notification?

Attempt any four questions from Que-2 to Que-8

Que-2 Attempt all questions.   **[14]**
    1. Write a note on anatomy of android application.   [5]
    2. What is intent? Explain explicit intent with example.   [5]
    3. Explain any four elements of AndroidManifest.xml file.   [4]

Que-3 Attempt all questions. [14]
1. Write a note on android architecture with diagram. [7]
2. What is service? Explain life cycle of service with diagram. [7]

Que-4 Attempt all questions. [14]
1. Write a note on Android telephony API. [5]
2. What is internal storage? Explain reading data from internal storage with example. [5]
3. Explain LBS and Geo-coder in brief. [4]

Que-5 Attempt all questions. [14]
1. Define notification. Explain how to create and issue it with example. [7]
2. What is activity? Draw diagram of activity life cycle and explain any four methods of it with syntax. [7]

Que-6 Attempt all questions. [14]
1. What is the use of RadioButton? Explain any four attributes of it. [5]
2. Explain TimePicker control in detail. [5]
3. Discuss any four attributes of ToggleButton. [4]

Que-7 Attempt all questions. [14]
1. Explain steps to publish android application. [7]
2. Explain steps to create "Hello World" app. [7]

Que-8 Attempt all following programs. [Write code for both .xml and .java files] [14]
1. Create an android application to reverse a given number with following validations.
   a. Only numbers are allowed to enter in EditText.
   b. Number should not exceed than 9999.
   c. Negative number is not allowed.
   Toast the output and also put clear and exit button. [7]
2. Create an android application to check whether enter no is Armstrong or not. Toast appropriate answer and also put clear and exit button. [7]