Enrollment No: _____   Exam Seat No: _____

C. U. SHAH UNIVERSITY
Winter Examination - 2022

Subject Name: Mobile Apps Development Using Android

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

Semester: 5   **Date: 21/11/2022**   **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 MCQs.   **[14]**

  1. In OHA, A stands for _____.
      a) Application   c) Android
      b) Alliance   d) App
  2. Android was founded in year _____.
      a) 2000   c) 2004
      b) 2006   d) 2003
  3. What is emulator?
      a) Supporting application   c) Hardware
      b) Virtual device to see output d) None of above
  4. Which is the default database in Android?
      a) SQLite   c) oracle
      b) Ms. Access   d) SQL
  5. In internal storage, to read data we have to create object of _____ class.
      a) InputStream   c) FileInputStream
      b) OutputStream   d) FileOutputStream
  6. In DVM, D stands for _____.
      a) Dalvik   c) Database
      b) Design   d) Default
  7. _____ finds the latitude and longitude of an address.
      a) Forward geocoding   c) Both a and b
      b) Reverse geocoding   d) None of above
  8. To create a notification, which class is used?
      a) NotificationCompat.Builder   c) CreateNotification

b) NotificationBuilder   d) BuildNotification

9. Which folder contains R.java file?
    a) Src   c) gen
    b) lib   d) bin

10. _____ layer of android architecture contains different drivers for hardware components.
    a) Application Framework   c) Linux Kernal
    b) Library   d) Application

11. Which attribute is used to align text in TextView?
    a) android:textAlign   c) android:align
    b) android:gravity   d) android:alignText

12. Which method of activity life cycle takes Bundle object as its parameter?
    a) onCreate()   c) onDestroy()
    b) onStop()   d) onStart()

13. Which is the root tag in AndroidManifest.xml file?
    a) <intent>   c) <application>
    b) <manifest>   d) <uses-sdk>

14. In ADB, D stands for _____.
    a) Design   c) Debug
    b) Database   d) Dalvik

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

Que-2 Attempt all questions.   **[14]**
1. Write down the wizard steps to create "Hello world" app.   [5]
2. What is resource? Explain any two resources in detail.   [5]
3. What is explicit intent? Write down its example.   [4]

Que-3 Attempt all questions.   **[14]**
1. Explain any seven features of android platform.   [7]
2. Explain activity life cycle with diagram.   [7]

Que-4 Attempt all questions.   **[14]**
1. Define service. Discuss its life cycle.   [5]
2. What is View & ViewGroup? Explain LinearLayout and TableLayout in detail. [5]
3. Discuss any 4 tags of AndriodManifest.xml file.   [4]

Que-5 Attempt all questions.   **[14]**
1. Explain android architecture in detail with diagram.   [7]
2. Write down steps to publish an Android application.   [7]

Que-6 Attempt all questions.   **[14]**
1. What is the use of TextView? Explain any six attributes of it.   [5]
2. Explain Button control with any four attributes.   [5]
3. Discuss frame animation with example.   [4]

Que-7 Attempt all questions. [14]
1. What is notification? Explain its components in detail. [5]
2. Discuss SQLiteOpenHelper class with example. [5]
3. Explain android telephony API in detail. [4]

Que-8 Attempt all questions. [14]
1. Create an android application for login. Enter username and password from user and if user name is "KBSSC" and password is "kb12345" then open new activity with welcome message "welcome KBSSC". [7]
2. Create an android application to display a list of 10 states using ListView. When user clicks on any state name, toast a message with state name. [7]