Enrollment No: _____   Exam Seat No.: _____

C. U. SHAH UNIVERSITY
Summer Examination-2022

Subject Name: Mobile Apps Development using Android
Subject Code: 4CS06BMA1   **Branch: BCA**
Semester: 6   **Date: 02/05/2022**   **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 the following MCQs and short questions: **[14]**

1. AVD stands for _____.
   a) Android Visual Device   c) Android Virtual Debugger
   b) Android Vision Device   d) Android Virtual Device
2. Which class is used to issue notification?
   a) NotificationManager   c) Notification
   b) NotificationIssue   d) NotificationCompat.Builder
3. What is emulator?
   a) Supporting application   c) Hardware
   b) Virtual device to see output   d) None of above
4. R.java file is found in _____ folder.
   a) res   c) gen
   b) src   d) libs
5. In internal storage, to read data we have to create object of _____ class.
   a) InputStream   c) FileInputStream
   b) OutputStream   d) FileOutputStream
6. Android was founded in year _____.
   a) 2003   c) 2006
   b) 2000   d) 2009
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. Which layer of Android architecture contains higher level of services in form of java classes?
   a) Application layer   c) Application Framework
   b) Linux kernel layer   d) Library layer
9. _____ attribute is used to uniquely identify control.
   a) android:id   c) android:uniqueID

b) android:identity   d) android:text

10. Which component is used to supply data from one application to another on request?

    a) Activity   c) Service

    b) Intent   d) Content Provider

11. In OHA full form, A stands for _____.

    a) Alliance   c) Application

    b) Activity   d) Action

12. Which control is used to display progress of on-going task?

    a) ProgressView   c) Progress

    b) ProgressBar   d) None of above

13. Give the full form of SDK and DDMS.

14. Describe the term: .apk file.

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

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

Que-3 Attempt all questions.   **[14]**
1. Discuss anatomy of android application.   [7]
2. Define intent? Explain implicit and explicit intents with example.   [7]

Que-4 Attempt all questions.   **[14]**
1. Explain TextView control with any four attributes.   [5]
2. Explain EditText control with anhy four attributes.   [5]
3. Discuss ToggleButton in short.   [4]

Que-5 Attempt all questions.   **[14]**
1. What is notification? Discuss how to create and issue notification.   [7]
2. Write a note on AndroidManifest.xml file with its elements.   [7]

Que-6 Attempt all questions.   **[14]**
1. Discuss steps to publish Android application to play store.   [7]
2. What is service? Explain service life cycle with diagram.   [7]

Que-7 Attempt all questions.   **[14]**
1. Explain various components of a notification.   [5]
2. Explain android telephony API in detail.   [5]
3. Discuss LBS in short.   [4]

Que-8 Attempt all questions.   **[14]**
1. Explain SQLiteDatabase class with its methods.   [5]
2. Write a short note on GPS and geocoding.   [5]
3. Explain different storage devices available in android.   [4]