

- 1-d. Android is based on which of the following language? (CO2) 1
- (a) Java
 - (b) C
 - (c) C++
 - (d) None of the above
- 1-e. For using Google map which permission you will specify in the AndroidManifest.xml? (CO3) 1
- (a) USEMAP
 - (b) USE_GOOGLE_MAP
 - (c) INTERNET
 - (d) None of the above.
- 1-f. Which of the following method is used by services to clean up any services? (CO3) 1
- (a) onStop() method
 - (b) stopService() method
 - (c) onDestroy() method
 - (d) stopSelf() method
- 1-g. As an Android programmer, what version of Android should you use as your minimum development target? (CO4) 1
- (a) Versions 1.6 or 2.0
 - (b) Versions 1.0 or 1.1
 - (c) Versions 1.2 or 1.3
 - (d) Versions 2.3 or 3.0
- 1-h. Which piece of code used in Android is not an open source? (CO4) 1
- (a) WiFi driver
 - (b) Audio driver
 - (c) Power management
 - (d) Keypad driver
- 1-i. iOS stands for? (CO5) 1
- (a) Internet Operating System
 - (b) Intelligent Operating System
 - (c) iPhone Operating System
 - (d) None of the above

- 1-j. Default UI Property is? (CO5) 1
- (a) Assign
 - (b) Atomic
 - (c) Non-atomic
 - (d) None

2. Attempt all parts:-

- 2.a. List Down the types of mobile applications. (CO1) 2
- 2.b. What are the different versions of Android OS that you remember? (CO2) 2
- 2.c. Name the various layouts in view group. (CO3) 2
- 2.d. What type of software is/are required for android app development? (CO4) 2
- 2.e. Explain features of iOS. (CO5) 2

SECTION B

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3. Answer any five of the following:-

- 3-a. Write down the full form and explain the meaning of the various extensions used in mobile development? (CO1) 6
- a. Apk
 - b. Phone
 - c. Mobile
 - d. Exe
 - e. IPA
 - f. Prc
- 3-b. Discuss the apple iOS platform for mobile applications. (CO1) 6
- 3-c. What do you mean by interface and how they are applicable in android. (CO2) 6
- 3-d. What is multiple inheritance and how to perform it in Java. Also explain its importance in android if any. (CO2) 6
- 3.e. Explain the process of communication between sender and receiver with REST APIS and its architecture. (CO3) 6
- 3.f. Discuss android app development process flow using Android Studio, Eclipse, IntelliJ IDA. Which you find is most suitable. (CO4) 6
- 3.g. Explain control transfer statements that are used in swift language. (CO5) 6

SECTION C

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4. Answer any one of the following:-

- 4-a. Differentiate web application and mobile application. (CO1) 10
- 4-b. Differentiate Native apps, Hybrid apps and browser-based web apps. (CO1) 10
5. Answer any one of the following:-
- 5-a. What is the difference between a class and an object? How it is created in android? (CO2) 10
- 5-b. Explain the following things in the context of android device: Screen size, Screen density, Orientation, Resolution, Density-independent pixel. (CO2) 10
6. Answer any one of the following:-
- 6-a. Explain in detail about Map View System of Google Maps. (CO3) 10
- 6-b. Write the procedure to add the animations in User Interface in android. (CO3) 10
7. Answer any one of the following:-
- 7-a. Explain with diagram the mobile cloud computing architecture. (CO4) 10
- 7-b. Explain the methods: getColumnNames(), getCount(), is Closed(), getPosition(), openOrCreateDatabase(String path, SQLiteDatabase.CursorFactory factory) in SQLite database. (CO4) 10
8. Answer any one of the following:-
- 8-a. What are the collection types that are available in swift? Explain with examples. (CO5) 10
- 8-b. Explain ACID properties. Does SQLite support the ACID properties. (CO5) 10