

B.C.A Semester - 6 (CBCS) Examination**March/April-2023 (NEW COURSE)****Mobile Computing using Android and iPhone (Core (New))****Time: 2:30 Hours****Marks: 70****Instructions:**

1. All questions are compulsory.
2. Figures to the right indicate marks.

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- Q.1(A) Answer the following: (03)
1. Give full form: SDK
 2. What is Open Handset Alliance?
 3. What is Android Studio?
- Q.1(B) Attempt the following. (any two) (06)
1. Explain in detail: Emulator
 2. Explain giving example: Context
 3. List and explain in brief: various resources available in android
 4. What is Android Manifest File? Explain its usefulness.
- Q.1(C) Attempt the following. (any one) (05)
1. What is Intent? Explain various types of Intent.
 2. Explain in detail: Anatomy of Android Application
- Q.2(A) Answer the following: (03)
1. What does Progress Bar do?
 2. We can select multiple options in Radio Group: True/False
 3. _____ dialog allows the user to select a date.
- Q.2(B) Attempt the following. (any two) (06)
1. Explain with example: Relative Layout
 2. What is Frame by Frame Animation?
 3. What is Cross Fading? Explain giving example.
 4. List various Dialogs. Explain any one with example.
- Q.2(C) Attempt the following. (any one) (05)
1. Explain giving example: Twined Animation
 2. List various UI Screen Elements. Explain any two with example.
- Q.3(A) Answer the following: (03)
1. Give full form: REST
 2. Which method is used to use internal storage to write to a data file?
 3. A Content Provider manages access to various internal packages: True/False
- Q.3(B) Attempt the following. (any two) (06)
1. Explain with syntax: Delete Table Query
 2. What are Shared Preferences?
 3. What is Content Provider? How is it useful?
 4. Write a short note on: retrofit
- Q.3(C) Attempt the following. (any one) (05)
1. Explain in detail: SQLite
 2. Write an Android application to create a database with following fields:
empid, designation, basic salary, DA, HRA. Calculate Gross salary by counting DA @20%, HRA @10% on basic salary. Show all the values in Grid for 10 employees.

- Q.4(A) Answer the following: (03)
1. Give full form: LBS
 2. The vibrating permission can be invoked inside _____ file.
 3. _____ method returns the most recent geographic location.
- Q.4(B) Attempt the following. (any two) (06)
1. What is Geocoding? Explain.
 2. List and explain various types of APIs commonly used in web services.
 3. Write steps to create status bar notifications in android app.
 4. Explain how to connect to MYSQL via post method.
- Q.4(C) Attempt the following (any one) (05)
1. Explain in detail: JSON
 2. Explain briefly:
 - a. Telephony API
 - b. Networking API
- Q.5(A) Answer the following: (03)
1. Small and static content can be displayed using _____.
 2. What is the Assistant Editor in XCode?
 3. X-Code is apple's official IDE for _____ OS.
- Q.5(B) Attempt the following. (any two) (06)
1. Explain: Simulator
 2. What is Storyboard?
 3. What is MVC? Explain in detail.
 4. Write steps to create button and add it to a container.
- Q.5(C) Attempt the following. (any one) (05)
1. Explain in detail: Cocoa Touch
 2. Explain how X-Code is useful in developing applications.
