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Subject Code:- ACSAI0515

Roll. No:

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**NOIDA INSTITUTE OF ENGINEERING AND TECHNOLOGY, GREATER NOIDA**

**(An Autonomous Institute Affiliated to AKTU, Lucknow)**

**B.Tech**

**SEM: V - CARRY OVER THEORY EXAMINATION - APRIL 2023**

**Subject: Mobile Application Development**

**Time: 3 Hours**

**Max. Marks: 100**

**General Instructions:**

**IMP:** Verify that you have received the question paper with the correct course, code, branch etc.

**1.** This Question paper comprises of **three Sections -A, B, & C.** It consists of Multiple Choice Questions (MCQ's) & Subjective type questions.

**2.** Maximum marks for each question are indicated on right -hand side of each question.

**3.** Illustrate your answers with neat sketches wherever necessary.

**4.** Assume suitable data if necessary.

**5.** Preferably, write the answers in sequential order.

**6.** No sheet should be left blank. Any written material after a blank sheet will not be evaluated/checked.

**SECTION A**

**20**

**1. Attempt all parts:-**

- 1-a. MOM stands for (CO1) 1
- (a) Mails oriented middleware
  - (b) Message oriented middleware
  - (c) Middleware of messages
  - (d) Main object middleware
- 1-b. SIM stands for? (CO1) 1
- (a) Subscriber Interface Module
  - (b) Subscriber Identification Module
  - (c) Subscriber Interface Modem
  - (d) Subscriber Identification Modem
- 1-c. Android is defined as an (CO2) 1
- (a) an operating system
  - (b) a web browser
  - (c) a web server

- (d) None of the above
- 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. Which element is used to display Google map in your UI. (CO3) 1
- (a) View
  - (b) Map
  - (c) MapView
  - (d) None of the above
- 1-f. Thingspeak can be defined as (CO3) 1
- (a) Sensor
  - (b) Actuator
  - (c) Protocol
  - (d) Cloud environment
- 1-g. Name the first phone released that ran the AndroidOS? (CO4) 1
- (a) Google gPhone
  - (b) T-Mobile G1
  - (c) Motorola Droid
  - (d) HTC Hero
- 1-h. Among these four, which database is natively supported by android? (CO4) 1
- (a) Oracle
  - (b) SQLite
  - (c) MYSQL
  - (d) MSSQL
- 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. Which framework does the class UIButton come from? (CO5) 1
- (a) CoreGraphics

- (b) Foundation
- (c) OpenGL ES
- (d) UIKit

**2. Attempt all parts:-**

- |      |   |   |
|------|---|---|
| 2.a. | List Down the types of mobile applications. (CO1)               | 2 |
| 2.b. | Explain various sensors used in Android phone. (CO2)            | 2 |
| 2.c. | Difference between Mobile IoT and Cloud IoT. (CO3)              | 2 |
| 2.d. | Define the terms files, preferences, and Sqlite database. (CO4) | 2 |
| 2.e. | Explain features of iOS. (CO5)                                  | 2 |

**SECTION B**

**30**

**3. Answer any five of the following:-**

- |      |   |   |
|------|---|---|
| 3-a. | Explain the Key Drivers for Mobile Applications. (CO1)                                  | 6 |
| 3-b. | Design the Architecture of Android based native Mobile App. (CO1)                       | 6 |
| 3-c. | Explain how you create first android application with example in relative layout. (CO2) | 6 |
| 3-d. | Difference between Table Layout and Frame Layout with diagram. (CO2)                    | 6 |
| 3.e. | Describe about the main Screen components of UI ? Explain any three of them. (CO3)      | 6 |
| 3.f. | Explain the best practices to be included for android application deployment. (CO4)     | 6 |
| 3.g. | Discuss the deployment issues of mobile applications in iPhone market place. (CO5)      | 6 |

**SECTION C**

**50**

**4. Answer any one of the following:-**

- |      |  |    |
|------|--|----|
| 4-a. | List down the challenges to develop a mobile app and explain it in detail. (CO1) | 10 |
| 4-b. | Differentiate between web application and mobile application. (CO1)              | 10 |

**5. Answer any one of the following:-**

- |      |   |    |
|------|---|----|
| 5-a. | Explain all types of inheritance used 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. | Discuss the concept of Mobile IoT and briefly explain its contribution in making | 10 |
|------|--|----|

a smart society? (CO3)

6-b. Define sensors and their types. How they are used in the MobileIoT? (CO3) 10

**7. Answer any one of the following:-**

7-a. Discuss testing and debugging of android application with suitable example. (CO4) 10

7-b. Define android permissions. Explain types of android permissions.(CO4) 10

**8. Answer any one of the following:-**

8-a. Explain Swift, its features and with example of iOS app. (CO5) 10

8-b. Draw and design the architecture of iOS with its applications. (CO5) 10

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