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NOIDA INSTITUTE OF ENGINEERING AND TECHNOLOGY, GREATER NOIDA

(An Autonomous Institute Affiliated to AKTU, Lucknow)

B.Tech

SEM: IV - THEORY EXAMINATION (2024- 2025)

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. | A mobile development framework is a (CO1,K1) | 1 |
| | (a) Hardware framework | |
| | (b) Software framework | |
| | (c) Both of the above | |
| | (d) None of these | |
| 1-b. | MOM stands for (CO1, K1) | 1 |
| | (a) Mails oriented middleware | |
| | (b) Message oriented middleware | |
| | (c) Middleware of messages | |
| | (d) Main object middleware | |
| 1-c. | Android is defined as an (CO2,K1) | 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,K1) | 1 |
| | (a) Java | |
| | (b) C | |
| | (c) C++ | |

- (d) None of the above
- 1-e. When a button is clicked, which listener you can use? (CO3,K2) 1
- (a) SetOnClickListener
 - (b) OnClickListener
 - (c) ClickListener
 - (d) None of the above
- 1-f. To enable zoom control on google map, Which method of MapView is used, also suppose that instance of MapView is mapView. (CO3,K3) 1
- (a) ZoomControls.Enabled=true
 - (b) mapView.setBuiltInZoomControls(true);
 - (c) mapView= ZoomControls(true);
 - (d) None of the above
- 1-g. Name the first phone released that ran the AndroidOS? (CO4,K2) 1
- (a) Google gPhone
 - (b) T-Mobile G1
 - (c) Motorola Droid
 - (d) HTC Hero
- 1-h. Which piece of code used in Android is not an open source? (CO4,K3) 1
- (a) WiFi driver
 - (b) Audio driver
 - (c) Power management
 - (d) Keypad driver
- 1-i. iOS stands for? (CO5, K1) 1
- (a) Internet Operating System
 - (b) Intelligent Operating System
 - (c) iPhone Operating System
 - (d) None of the above
- 1-j. Name the programming language used to develop iOS Applications. (CO5,K1) 1
- (a) Swift and Objective C
 - (b) JAVA
 - (c) PHP
 - (d) None

2. Attempt all parts:-

- 2.a. List down the types of mobile applications. (CO1,K1) 2
- 2.b. List out and explain the dialog boxes that are supported by the Android platform. (CO2,K2) 2
- 2.c. Name the various layouts in view group and usages. (CO3, k3) 2
- 2.d. Define XML and its usage in android. Name the XML file generated in Studio. 2

(CO4, K3)

- 2.e. Explain the concept of cross-platform support in iOS with example. (CO5, K2) 2

SECTION-B

30

3. Answer any five of the following:-

- 3-a. Decode MOBILE. Name the processors used for mobile and handheld devices. (CO1,K2) 6
- 3-b. Design the architecture of iOS based native Mobile App. (CO1,K2) 6
- 3-c. Explain how you create first android application with example in relative layout. (CO2,K3) 6
- 3-d. Difference between Table Layout and Frame Layout with diagram. (CO2,K4) 6
- 3.e. Execute the class in google maps and explain with the code. (CO3,K3) 6
- 3.f. Name and explain the tests that run on an android device or other computer. (CO4, K3) 6
- 3.g. Explain control transfer statements that are used in swift language. (CO5, K2) 6

SECTION-C

50

4. Answer any one of the following:-

- 4-a. Explain end to end flow of a hybrid Mobile Apps with suitable diagram.(CO1,K2) 10
- 4-b. State the term quality constraints with example. How can you achieve quality constraints. (CO1, K2) 10

5. Answer any one of the following:-

- 5-a. Explain various resources which can be specified in Android application project. Give an appropriate example for each. (CO2,K2) 10
- 5-b. Discuss various tools required to develop android and implement Broadcast Receivers with demo code. (CO2,K3) 10

6. Answer any one of the following:-

- 6-a. Execute in detail Map View System of Google Maps with code. (CO3,K3) 10
- 6-b. Analyze the library system of NIET and create an android application of library system with constraint layout. (CO3, k4) 10

7. Answer any one of the following:-

- 7-a. Explain designing applications with multimedia and web access capabilities. (CO4,K2) 10
- 7-b. Differentiate between SQL, SQLite, and Firebase along with the properties and usage in android applications. (CO4,K4) 10

8. Answer any one of the following:-

- 8-a. Show the steps in creating "LOGIN" iOS application along with code. (CO5,K5) 10
- 8-b. Describe the terms and their importance in iOS: enumerations, dictionary, inheritance, property, and protocols. (CO5,K2) 10