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B TECH
(SEM-VII) THEORY EXAMINATION 2021-22
DESIGN AND DEVELOPMENT OF APPLICATIONS

Time: 3 Hours**Total Marks: 100****Note: 1.** Attempt all Sections. If require any missing data; then choose suitably.

SECTION A

1. **Attempt all questions in brief.** **2 x 10 = 20**
- a. What do you mean by delivery of a mobile application?
 - b. What is iOS?
 - c. What do you mean by embedded system? Explain.
 - d. What is an event? Explain.
 - e. Define data persistence with example.
 - f. What do you mean by usability?
 - g. Explain cloud computing.
 - h. Define android activity life cycle.
 - i. What is XML?
 - j. Define GPS.

SECTION B

2. **Attempt any three of the following:** **10 x 3 = 30**
- a. How you will differentiate between an Android System and iOS system? Discuss with suitable examples.
 - b. Write a detailed note on the requirements gathering and validation for mobile applications.
 - c. Discuss the parameters that are important while designing the applications with multimedia web access capabilities.
 - d. Discuss the important features of Android application architecture with example.
 - e. How to integrate the calendar and address book with social media applications? Discuss with an example.

SECTION C

3. **Attempt any one part of the following:** **10 x 1 = 10**
- (a) Write a note on the various market and business drivers for mobile applications with suitable examples.
 - (b) Which programming language does android support to develop an mobile application? Discuss with suitable example.
4. **Attempt any one part of the following:** **10 x 1 = 10**
- (a) What is the framework used to construct application's user interface for iOS? Discuss.
 - (b) Write a note on various issues in embedded system design.
5. **Attempt any one part of the following:** **10 x 1 = 10**
- (a) Discuss the various quality parameters to be considered while designing user interface.
 - (b) What do you mean by the hosting of an application in a cloud-computing environment? Explain with an example.
6. **Attempt any one part of the following:** **10 x 1 = 10**
- (a) Explain the method for parsing XML data in android system with a suitable example.
 - (b) Write a detailed note on Swift using some example.
7. **Attempt any one part of the following:** **10 x 1 = 10**
- (a) Describe the data persistence using core data and SQLite with suitable example.
 - (b) Explain the following: (i) Packaging and deployment. (ii) User Interface design issues.