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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.