Subject Code: KCS075

PAPER ID-410295

Roll No: | | | | | | | | | | | | |

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 obile 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.

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