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CBCS SCHEME

USN ☐☐☐☐☐☐☐☐☐☐ 20MCA263

Second Semester MCA Degree Examination, July/August 2022
Mobile Applications Development

Time: 3 hrs. Max. Marks: 100

Note: *Answer any FIVE full questions, choosing ONE full question from each module.*

Module-1

1 a. What are the preliminary considerations for Mobile Application Development? **(10 Marks)**
  b. Demonstrate effective use of Screen Rent Estate. **(06 Marks)**
  c. List out any 4 features of Android OS, with respect to user interface design. **(04 Marks)**

OR

2 a. Discuss briefly on the design patterns for Navigation used in mobile user interface design. **(10 Marks)**
  b. Explain Gestalt Principles **(06 Marks)**
  c. Compare Simulators and Emulators. **(04 Marks)**

Module-2

3 a. Explain the basic components of an Android Application **(06 Marks)**
  b. Write short notes on the anatomy of an Android Application. **(10 Marks)**
  c. What is a fragment? How is it useful in designing an application? **(04 Marks)**

OR

4 a. What is an action bar? Demonstrate how to utilize it with an example. **(08 Marks)**
  b. What is Android Manifest File? Explain its contents in detail. **(08 Marks)**
  c. List out the tools required for developing an Androids application. **(04 Marks)**

Module-3

5 a. Illustrate the use of a list view with a code snippet. **(10 Marks)**
  b. With an example application demonstrate the use of Checkbox, Radiobutton, Button EditText and TextVeiw. **(10 Marks)**

OR

6 a. Explain the steps involved in displaying maps in an android application. **(10 Marks)**
  b. Discuss on the steps involved in publishing an android application in Google Playstore. **(10 Marks)**

Module-4

7 a. Define service? Explain how an activity can invoke a service with an example. **(10 Marks)**
  b. Give the code snippet for downloading an image from a given URL and display it using ImageView. **(10 Marks)**

OR

8 a. Explain briefly how SMS works in Android. **(10 Marks)**
  b. Write short notes on Asynchronous tasks in Android. **(08 Marks)**
  c. Name the permissions you need to declare in your Android Manifest file for HTTP connection. **(02 Marks)**

Module-5

9   a. Explain briefly the steps to create native IoS applications.   (10 Marks)
    b. Discuss on the anatomy of an IoS application.   (10 Marks)

OR

10 a. Explain the various types of Notifications used in Windows Phone 7.   (08 Marks)
    b. Write short note on the following with respect to windows Phone 7.
        i) Offline Storage   ii) Accelerometer.   (08 Marks)
    c. Explain GPS features for Windows Phone 7 Application.   (04 Marks)

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