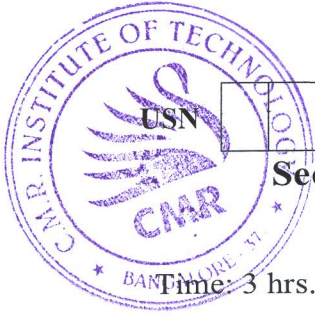


# CBCS SCHEME

20MCA263



## Second Semester MCA Degree Examination, June/July 2023 Mobile Application Development

Time: 3 hrs.

Max. Marks: 100

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

### Module-1

- 1 a. Explain the Preliminary considerations to build a mobile application. (10 Marks)  
b. Describe the effective use of Screen and Real Estate. (10 Marks)

OR

- 2 a. Explain the various information design tools of Mobile Interface Design. (10 Marks)  
b. Briefly discuss the Gestalt's Principles. (10 Marks)

### Module-2

- 3 a. Describe Anatomy of Android Application. (10 Marks)  
b. Explain the fundamentals of developing an Android Application. (10 Marks)

OR

- 4 a. What is Activity? Explain briefly the Life Cycle of an Activity. (10 Marks)  
b. Write a short notes on Components of Android Applications. (10 Marks)

### Module-3

- 5 a. Explain in detail, how to design user interfaces using views and view groups. (10 Marks)  
b. What are the different methods for getting location data? Explain. (10 Marks)

OR

- 6 a. Differentiate the basics of Android UI design and location based services. (10 Marks)  
b. Discuss APK file deployment in detail and steps involved in Publishing Android application. (10 Marks)

### Module-4

- 7 a. Explain the procedure for sending an SMS through android application with a code snippet. (10 Marks)  
b. Define Service. How do you create your own service in android? Explain with a snippet code. (10 Marks)

OR

- 8 a. What is the process for binding activities to services in Android applications? (10 Marks)  
b. Explain the concept of networking in the terms of communicating between service and activity. (10 Marks)

### Module-5

- 9 a. What is a Program level in iOS? Discuss the various program levels available for an iOS developer. (10 Marks)  
b. With a neat diagram, explain iOS project. (10 Marks)

OR

- 10 a. Describe the Anatomy of a Windows Phone – 7 App. (10 Marks)  
b. Write short note on other useful Windows Phone thing. (10 Marks)

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Important Note : 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.  
2. Any revealing of identification, appeal to evaluator and /or equations written eg, 42+8 = 50, will be treated as malpractice.

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