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**Fourth Semester MCA Degree Examination, Dec.2018/Jan.2019**

**Mobile Applications**

Time: 3 hrs.

Max. Marks:100

**Note: Answer any FIVE full questions.**

- 1
  - a. Differentiate mobile web versus mobile apps. (03 Marks)
  - b. How costs associated with mobile application development? (07 Marks)
  - c. What is mobile application? Explain mobile content, mobile browsers and benefits of mobile appa. (10 Marks)
  
- 2
  - a. What is web service? (02 Marks)
  - b. Explain Quick Response Code (QR Code), Microsoft Tag, bar code and Third Part Markets. (08 Marks)
  - c. Explain with examples Web Service Language (formats) and Advantages of Web Services. (10 Marks)
  
- 3
  - a. Differentiate between Adaptive and Dedicated Mobile Websites. (03 Marks)
  - b. What is Mobile Platform? Explain Android, ios, Black Berry OS, Windows Phone 7 mobile interface platform. (07 Marks)
  - c. What is Mobile User Interface Design? Explain proximity, Closure, Continuity, figure and ground, similarity of mobile users with suitable diagrams. (10 Marks)
  
- 4
  - a. What is Android? Why target Android? Who support Android? (05 Marks)
  - b. Explain briefly Anatomy of Android. (05 Marks)
  - c. How you create an Android Application for handling onKeyDown Events? (10 Marks)
  
- 5
  - a. Explain briefly with an example any five Android layouts and view groups. (10 Marks)
  - b. Explain briefly with an example any five basic views of Android UI components. (10 Marks)
  
- 6
  - a. What is ios? Explain different types of Apple mobile devices with examples. (05 Marks)
  - b. What is Max OSX? Explain components of the iphone SDK. (05 Marks)
  - c. What is objective C? explain Anatomy of an ios App. (10 Marks)
  
- 7
  - a. What is windows phone 7? How you develop software for windows phone 7? (10 Marks)
  - b. What are silver light and windows Phone 7 Emulator? Explain Anatomy of a windows Phone 7 App. (10 Marks)
  
- 8
 

Write short notes:

  - a. Mobile App
  - b. HCCB
  - c. JSON
  - d. Android SDK

(20 Marks)

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