

Roll No.

Total No. of Pages : 02

Total No. of Questions : 09

MCA (2015 & Onwards) (Sem.-4)
MOBILE APPLICATION DEVELOPMENT
Subject Code : MCA-401
Paper ID : [74119]

Time : 3 Hrs.

Max. Marks : 60

INSTRUCTIONS TO CANDIDATES :

- 1. SECTIONS-A, B, C & D contains TWO questions each carrying TEN marks each and students have to attempt any ONE question from each SECTION.**
- 2. SECTION-E is COMPULSORY consisting of TEN questions carrying TWENTY marks in all.**

SECTION-A

1. **What is Android? Explain Android working and Architecture in detail.**
2.
 - a) **Describe why you should have a privacy policy.**
 - b) **Discuss major usability challenges with mobile development.**

SECTION-B

3. Discuss virtual reality technology for mobile devices, specifically touching on how mobile devices are at the cutting edge. What do you need for VR to "work"? What advantages does mobile bring to VR?
4. What is Mobile Software Engineering? Why is MSWE is important? What are the Mobile Software Engineering Characteristics and Challenges? Discuss mobile software engineering process.

SECTION-C

5. Discuss the core components of an Android app (specifically activities, intents and services) and how they are put together to create a full-featured app.
6. What is meant by multiplatform designs? How it is incorporated.

SECTION-D

7. Describe benefits that the Android and iOS design guidelines provide to developers. What are the advantages to following the guidelines? Are there reasons not to follow the guidelines?
8.
 - a) Give overview of iOS. Explain in detail about iOS layers.
 - b) What are the different application running modes in Windows App Development?

SECTION-E

9. Write briefly :

- a) List **any four** features of ANDROID SDK.
- b) What is Dalvik Virtual Machine?
- c) Give overview of iOS.
- d) What are advantages of Android?
- e) Write steps for testing methodologies for mobile applications.
- f) List the software required for mobile application Development.
- g) Why is mobile development difficult?
- h) What is An Activity?
- i) Discuss Anatomy of a Windows Phone 8 App.
- j) Windows phone 8 operating system.