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Total No. of Pages : 02

Total No. of Questions : 09

MCA (2015 & Onward) (Sem.-4)
MOBILE APPLICATION DEVELOPMENT

Subject Code : MCA-401

M.Code : 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. Explain the architecture and working of Android operating system.
2. a) Discuss the procedure for designing user interface design.
b) What are different enterprise requirements of mobile applications?

SECTION-B

3. a) Discuss various design principles of mobile software engineering.
b) Write a short note on Android SDK.
4. a) Describe the directory structure of Android project.
b) What is meant by Android XML? Explain.

SECTION-C

5. Explain the use of following App components :
a) Intents and Intent filters
b) App Widgets
6. a) What is the use of Action Bar? Explain.
b) Discuss the connectivity of mobile devices in mobile application development.





SECTION-D

7. What is the procedure for building an application for iOS? Explain.
8. Write a short note on the following concepts :
 - a) iOS Development Environment
 - b) Windows phone Environment

SECTION-E

9. Write briefly :
 - a) What is alert class?
 - b) Write a short note on networking of mobile devices.
 - c) What is meant by modifiability of a mobile application?
 - d) Define AVD manager.
 - e) Name **any two** plugins for adding virtual devices.
 - f) What are content providers?
 - g) Write steps to add animation in mobile application.
 - h) How window applications differ from iOS Apps?
 - i) Name different layers of iOS.
 - j) Define swift.

NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.

