Roll No.						
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Total No. of Pages : 02

Total No. of Questions : 09

MCA (2019 & 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 variable 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.

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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 apply ations 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.

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