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Total No. of Questions : 18

B.Tech. (CSE) (2012 to 2017) (E-I) (Sem.-6)

MOBILE APPLICATION DEVELOPMENT

Subject Code : BTCS-902

M.Code : 71111

Time : 3 Hrs.

Max. Marks : 60

INSTRUCTIONS TO CANDIDATES :

1. **SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.**
2. **SECTION-B contains FIVE questions carrying FIVE marks each and students have to attempt any FOUR questions.**
3. **SECTION-C contains THREE questions carrying TEN marks each and students have to attempt any TWO questions.**

SECTION-A

Answer briefly :

- 1) What is Dalvik Virtual Machine?
- 2) Give overview of iOS.
- 3) What are advantages of Android?
- 4) Write steps for testing methodologies for mobile applications.
- 5) List the software required for mobile application Development.
- 6) Why is mobile development difficult?
- 7) What is An Activity?
- 8) Discuss Anatomy of a Windows Phone 8 App.
- 9) What is the importance of having an emulator within the Android environment?
- 10) What is the difference between not-running, inactive, active, background and suspended execution states?

SECTION-B

- 11) a) Give a brief description on the directory structure of an Android project.
b) Explain Dalvik virtual machine architecture
- 12) What are the hardware constraints and restrictions with mobile operating systems?
- 13) Discuss about windows phone and its platform.
- 14) Describe these App components - Intent, Activity and Threads.
- 15) What are the different communication protocols in windows phone?

SECTION-C

- 16) a) Explain how the lifecycle of an android activity works.
b) What is intent? How many different intent types are there?
- 17) a) Give overview of iOS. Explain in detail about iOS layers.
b) What are the different application running modes in Windows App Development?
- 18) a) How to design user interface for Multi-platform explain in detail.
b) What best practices must be followed to ensure that application work on multiple android devices of different screen size, processing power and features?

NOTE : Disclosure of identity by writing mobile number or making passing request on any page of Answer sheet will lead to UMC case against the Student.