

## 18CC1001

### M. Tech. EXAMINATION, 2020

(Third Semester)

(C Scheme) (Main & Re-appear)

(CSE)

MTCSE601C

MOBILE APPLICATIONS AND SERVICES

*Time : 2½ Hours]*

*[Maximum Marks : 75*

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Before answering the question-paper candidates should ensure that they have been supplied to correct and complete question-paper. No complaint, in this regard, will be entertained after the examination.

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**Note :** Attempt *Four* questions in all. All questions carry equal marks.

1. (a) Explain Mobile Computing in detail. Also write its significance.  
(b) Elaborate the Android Development Environment in detail.
2. (a) Illustrate Mobile Software Engineering in detail.  
(b) Define Generic UI. Also write the process of developing Generic UI.
3. (a) List and explain the steps of Text-to-Speech conversion techniques.  
(b) Compare and contrast Multichannel and Multimodal UIs.
4. (a) Describe the process of Synchronization and Replication of Mobile data.  
(b) Elaborate VUI. Also write how you can design a right UI.
5. (a) Describe the working mechanism of Android telephony.  
(b) List and explain the techniques for Android Networking.

6. (a) Explain, how multithreading is beneficial for Android systems.  
(b) Illustrate the concept of Notifications and Alarms. Also write their significances.
7. Describe the steps that need to be followed for packaging and developing a mobile application in Android. Also list the best practices for performance improvement in Android system.
8. (a) What do you understand by mobile agents ? Illustrate.  
(b) Describe the working mechanism of location based services in Android system. Also illustrate the significance of location based services.