U.S.N

P.E.S. College of Engineering, Mandya - 571 401
(An Autonomous Institution affiliated to VTU, Belagavi)
Second Semester, M. Tech - Computer Engineering (MCEN)
Semester End Examination; June - 2017
Mobile Applications and Development

Time: 3 hrs   *Max. Marks: 100*

***Note**: Answer **FIVE** full questions, selecting **ONE** full question from each unit.*

UNIT - I

1 a.	List and explain the different Android SDK features.	10
b.	What does Android run on? Why do we develop for mobile phones? List the unique features of Android.	10
2 a.	Discuss the Android software stack.	10
b.	List and explain the native android applications in detail.	10

UNIT - II

3 a.	Explain the hardware-imposed design considerations in detail.	10
b.	How do you minimize the interaction cost? Discuss.	10
4 a.	Discuss the various Android development tools.	10
b.	How do you develop secure applications? Discuss in detail.	10

UNIT - III

5 a.	Explain the six building blocks for your applications.	10
b.	Describe the more familiar tool box controls.	10
6 a.	What are the drawable resources available in Android UI development? Explain in detail.	10
b.	Describe the application lifecycle of android.	10

UNIT - IV

7 a.	Why and how do we use intents? Discuss with necessary example.	10
b.	Write a note on the following : i) Preference activity ii) Preference framework.	10
8 a.	How Android Resolves Intent filters? Explain in detail.	10
b.	Discuss the various native Android Broadcast actions.	10

UNIT - V

9 a.	Discuss on Android Database Design considerations.	10
b.	How do you create and control services? Explain with the help of a program snippet.	10
10 a.	Explain the process of creating a notification and configuration of status bar icon with a program snippet.	10
b.	Explain how to create a native content provider with the help of programs?	10

＊ ＊ ＊ ＊