Reg. No.					



V SEMESTER B.TECH. COMPUTER SCIENCE & ENGG. MAKEUP EXAMINATIONS, NOV/DEC 2019 SUBJECT: MOBILE APPLICATION DEVELOPMENT(CSE 4027) ELE-I REVISED CREDIT SYSTEM DATE: 27-12-2019

TIME:03 HOURS MAX.MARKS : 50

Instructions to Candidates:

- Answer **ALL** questions.
- Missing data, if any, may be suitably assumed.

1A.	Explain physical ecosystem of mobility with a neat diagram.	3M
1B.	Design an Activity for Registration to the App. The Registration should include collecting user name, password, confirm password, phone number, gender. Write the Layout XML file. Also write a function named validate() which will validate whether all fields entered are correct.	4M
1C.	Write the code for an Activity which has a textbox and a button. User will enter a string in the text box and will click the button. On clicking the button display separately the number of each vowel present in the textbox.	3M
2A.	List the types of Services in Android. Draw and explain the Service Life cycle for each type of Service.	4M
2B.	Write the code for an Activity which has names of any 6 States of India. Use Spinner for displaying the states. In the same activity provide a button. Once the user clicks on the button, display the state selected by the user.	3M
2C.	Explain how to perform a task in Android using AsyncTask. Give an example.	3M
3A.	Write all the code for displaying a message "Boot completed" whenever an Android phone is booted.	3M
3B.	Write all the code for displaying a notification with text "The time now is <time>" whenever user clicks on a button.</time>	4M
3C.	Explain Shared Preferences with an example. Write the location of XML file output of a shared preference.	3M

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4A.	Explain the following methods of SQLiteDatabase object.				
	i. query				
	ii. rawQuery				
	iii. insert				
	iv. execSQL				
4B.	Write the code for drawing a blue smooth circle of radius 30 pixels and a yellow square of size 50 pixels.	3M			
4C.	Explain the types of animations in Android.	3M			
5A.	List and explain the types of Sensors packaged with an Android phone.	3M			
5B.	Explain the types of Testing which can be carried out on an Android App. Write the code for a unit testing.	4M			
5C.	Explain the different distribution options for an Android App mentioning the advantages and disadvantages of each option.	3M			

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