IV B.Tech – I Semester
(17CS711) MOBILE COMPUTING LAB

Int. Marks	Ext. Marks	Total Marks	L	T	P	C
60	40	100	-	-	3	2

Pre-Requisites: Java Programming, SQL

1. Write a J2ME program to show how to change the font size and colour.
2. Write a J2ME program which creates the following kind of menu.
* cut
* copy
* past
* delete
* select all
* unselect all
3. Create a J2ME menu which has the following options (Event Handling):
 cut - can be on/off
 copy - can be on/off
 paste - can be on/off
 delete - can be on/off
 select all - put all options on
 unselect all - put all
4. Create a MIDP application, which draws a bar graph to the display. Data values can be given at int[] array. You can enter four data (integer) values to the input text field.
5. Create an MIDP application which examine, that a phone number, which a user has entered is in the given format (Input checking):
* Area code should be one of the following: 040, 041, 050, 0400, 044
* There should 6-8 numbers in telephone number (+ area code)
6. Write a sample program to show how to make a SOCKET Connection from J2ME phone. This J2ME sample program shows how to how to make a SOCKET Connection from a J2ME Phone. Many a times there is a need to connect backend HTTP server from the J2ME application. Show how to make a SOCKET connection from the phone to port 80.
7. Login to HTTP Server from a J2ME Program. This J2ME sample program shows how to display a simple LOGIN SCREEN on the J2ME phone and how to authenticate to a HTTP server. Many J2ME applications for security reasons require the authentication of the user. This free J2ME sample program, shows how a J2ME application can do authentication to the backend server. Note: Use Apache Tomcat Server as Web Server and MySQL as Database Server.
8. The following should be carried out with respect to the given set of application domains: (Assume that the Server is connected to the well-maintained database of the given domain. Mobile Client is to be connected to the Server and fetch the required data value/information) • Students Marks Enquiry • Town/City Movie Enquiry • Railway/Road/Air (For example PNR) Enquiry/Status • Sports (say, Cricket) Update • Town/City Weather Update • Public Exams (say Intermediate or SSC)/ Entrance (Say EAMCET) Results Enquiry Divide Student into Batches and suggest them to design database according to their domains and render information according the requests.
9. Write an Android application program that displays Hello World using Terminal.
10. Write an Android application program that displays Hello World using Eclipse.
11. Write an Android application program that accepts a name from the user and displays the hello name to the user in response as output using Eclipse.
12. Write an Android application program that demonstrates the following: (i) LinearLayout (ii) RelativeLayout (iii) TableLayout (iv) GridView layout
13. Write an Android application program that converts the temperature in Celsius to Fahrenheit.
14. Write an Android application program that demonstrates intent in mobile application development.

Course Outcomes:

CO-1	Develop pop-up menus using J2ME Programming concepts.	L3
CO-2	Apply essential Android Programming concepts.	L3
CO-3	Develop various Android applications related to layouts & rich uses interactive interfaces.	L3

Correlation of COs with POs & PSOs:

	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10	PO-11	PO-12	PSO-1	PSO-2	PSO-3
CO-1	2	3	3	3	3	-	-	-	-	-	2	1	2	2	2
CO-2	3	2	3	3	3	-	-	-	-	-	2	2	1	2	2
CO-3	3	3	3	3	3	-	-	-	-	-	2	2	1	2	2