Reg No.:	Name:

APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY

FOURTH SEMESTER REGULAR AND SECOND SEMESTER SECOND YEAR DIRECT MCA DEGREE EXAMINATION(R&S), MAY 2019

MCA DEGREE EXAMINATION(R&S), MAY 2019		
Course Code: RLMCA206		
Course Name: MOBILE COMPUTING		
Max. M	Marks: 60 Duration: 3	Hours
PART A		
	Answer all questions, each carries 3 marks.	Marks
1	List the various applications of wireless LANs? Explain.	(3)
2	Explain the different services of GSM.	(3)
3	List t characteristics of mobile computing?	(3)
4	Explain the operating system responsibilities in mobile devices.	(3)
5	How android operating systems overcome the difficulties compared with other	(3)
	operating systems?	
6	What is meant by J2ME configuration? Explain different types of	(3)
	configurations.	
7	What are the facilities provided by DDMS?	(3)
8	What is use of broadcast receiver in android?	(3)
PART B Fach question agrees 6 marks		
Each question carries 6 marks. Module I		
9	What is piconet? Explain the protocol stack of Bluetooth.	(6)
,	OR	(0)
10		(6)
10	What are the components of a wireless communication system? Explain its	(6)
	functions.	
Module II		
11	Explain the architecture of GPRS with a neat diagram.	(6)
OR		
12	Illustrate the structure of mobile computing application.	(6)

Module III

Explain the architectural difference between monolithic kernel design and 13 (6) microkernel design approach in mobile operating system with the help of a neat diagram. Also explain its advantages and disadvantages. 14 Explain the special constraints and special service requirements of mobile operating system. **Module IV** 15 Explain the architecture of android software stack structure with a neat diagram. (6) 16 What is the use of WAP? Explain the WAP protocol stack with a neat diagram. (6)**Module V** Compare the features of DVM and JVM. 17 (6) ORExplain the importance of using SDK, ADT, AVD in android mobile application 18 (6) development. **Module VI**

What is the use of Layouts in android? Explain any five layouts used in android. (6)

OR

What is Service in android? Explain the life cycle of Service.

(6)