C   **L2C004**

Reg. No._____   Name:_____

APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY
SECOND SEMESTER MCA (LATERAL ENTRY) DEGREE EXAMINATION, MAY 2017

Course Code: RLMCA206
Course Name: MOBILE COMPUTING

Max. Marks: 60 Marks   Duration: 3 Hours

PART A
Answer all Questions. Each question carries 3 Marks.

1. Discuss the Architecture of a Mobile Telecommunication Network using a schematic diagram.
2. Distinguish between Mobile Computing and Wireless networking.
3. Explain advantages of GPRS over GSM.
4. Differentiate Monolithic versus Microkernel design of OS.
5. How is the OS of a mobile phone different from the OS for a desktop? Explain any 3 points in detail.
6. Write a short note on the components of an Android application.
7. Compare the difference between JVM & DVM.
8. Discuss Activity of an Android application with its Life cycle.

PART B
Answer any one Question from each Module. Each question carries 6 Marks.

Module I

9. a. What do you mean by a WLAN? Explain its Architecture with suitable diagram.

Or

b. Compare BLE with Classic Bluetooth.

Module II

10. a. Explain GSM System with its Architecture and Security.

Or

b. Briefly explain how the mobile cellular communication has evolved over different generations of technology.

Module III

11. a. Explain Android Application with Protocol Stack.

Or

b. Give the Comparative study of different mobile OS.

Module IV

12. a. Explain WAP protocol and its Architecture in detail. Discuss the various layers of WAP.

Or

b. What is J2ME? What facilities does it offer to a mobile application developer? Briefly discuss the architecture with suitable diagram.

Module V

13. a. Explain Android Development Environment in detail.

Or

b. Write a short note on:
   a. Eclipse
   b. DDMS

Module VI

14. a. Explain Service with its features and differentiate the Bounded and Unbounded Life Cycles of Service.

Or

b. Write an Android program to register a user using username and mobile no to the application.

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