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Question Paper Code: 31262

B.E. / B.Tech. DEGREE EXAMINATION, MAY 2017

Sixth Semester

Computer Science and Engineering

01UCS602 - FUNDAMENTALS OF MOBILE COMPUTING

(Regulation 2013)

Duration: Three hours

Maximum: 100 Marks

Answer ALL Questions

PART A - (10 x 2 = 20 Marks)

1. List the characteristics of Mobile Computing.
2. Give the use of SDMA.
3. How to perform route optimization in Mobile IP?
4. State the features of mobile IP.
5. What are the types of Handover in GSM?
6. Define GPRS. What are the goals of GPRS?
7. List the characteristics of Mobile Adhoc networks.
8. How VANET differs from a traditional MANET?
9. What are the advantages of the Android over windows iphone?
10. Compare any two features of android, symbian OS and Windows phone7.

PART - B (5 x 16 = 80 Marks)

11. (a) Discuss the structure of mobile computing application. (16)

Or

(b) List the Wireless MAC issues and explain about random assignment and reservation based schemes with examples. (16)

12. (a) Write the key mechanism in Mobile IP and explain the concept of Tunneling and Encapsulation in detail. (16)

Or

(b) Analyze the layered architecture of TCP/IP protocol suite. (16)

13. (a) Explain UMTS architecture and its upgradation. (16)

Or

(b) Discuss GPRS architecture in detail. (16)

14. (a) Explain how dynamic source routing protocol handles routing. Give example. (16)

Or

(b) Explain about VANET and Security issues in MANET in detail. (16)

15. (a) Compare Android with iOS in detail. (16)

Or

(b) What do you understand by the mobile payment system? Examine an application where mobile payment may be useful. Explain the different payment systems that are available. (16)