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Question Paper Code: 36202

B.E. / B.Tech. DEGREE EXAMINATION, APRIL 2019

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. Compare fixed assignment and random assignment schemes.
3. How to perform route optimization in Mobile IP?
4. What is slow start in Mobile TCP?
5. What are the types of Handover in GSM?
6. What is UMTS?
7. Define VANET.
8. How VANET differs from a traditional MANET?
9. What are the disadvantages in the context of designing a mobile operating system?
10. What is wormhole attack?

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) Define TCP. Explain in detail regarding how to improve the performance of TCP. (16)

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

Or

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

14. (a) Analyze traditional routing protocols with MANET protocols like AODV and DSDV protocols. (16)

Or

(b) Explain in detail about distance vector routing protocol. (16)

15. (a) Explain in detail about the basic concepts of Mobile OS. (16)

Or

(b) Describe M-commerce in detail and write it's pros and cons. (16)