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Question Paper Code : X 67612

B.E./B.Tech. DEGREE EXAMINATIONS, NOVEMBER/DECEMBER 2020

Seventh/Eighth Semester

Computer Science and Engineering
IT 1403 – MOBILE COMPUTING
(Common to Information Technology)
(Regulations 2008)

Time : Three Hours

Maximum : 100 Marks

Answer ALL questions

PART – A

(10×2=20 Marks)

1. Write a note on multipath propagation.
2. Explain slotted Aloha.
3. List the various types of handover scenarios in GSM.
4. Why is new infrastructure needed for GPRS and not for HSCSD ?
5. Differentiate 802.11 a from 802.11 b.
6. What is Management Information Base ? How is it managed ?
7. Name the requirements for a mobile IP.
8. Name the entities of mobile IP.
9. What is slow start and fast retransmit in traditional TCP ?
10. List the classes of transaction service of WTP.

PART – B

(5×16=80 Marks)

11. a) i) What is spread spectrum ? Explain how it is implemented. (10)
ii) Briefly discuss about cellular wireless networks. (6)
- (OR)
- b) i) Compare SDMA, TDMA, FDMA and CDMA mechanisms. (10)
ii) Explain in detail Amplitude Shift Keying. (6)



12. a) i) Explain the protocol architecture of GSM. (8)
ii) Give the four handover sceneries in GSM. (8)
- (OR)
- b) i) Discuss in detail about digital video broadcasting. (8)
ii) How is localization of users done in satellite networks ? (8)
13. a) i) Discuss the IEEE 802.11 architecture in detail. (10)
ii) Explain MAC management in detail. (6)
- (OR)
- b) i) Explain the channel access control sub layer in HIPERLAN. (8)
ii) Discuss about Bluetooth technology in detail. (8)
14. a) i) What is meant by DHCP ? Explain. (8)
ii) Explain the reactive routing protocol. (8)
- (OR)
- b) i) What are the general problems of mobile IP regarding security and support of quality of service ? (8)
ii) Explain DSDV routing. (8)
15. a) Explain the protocol architecture of WAP.
- (OR)
- b) Explain the following :
- i) Indirect TCP. (8)
ii) Transaction oriented TCP. (8)
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