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Question Paper Code : X20463

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

Eighth Semester

Electronics and Communication Engineering

EC 6802 – WIRELESS NETWORKS

(Regulations 2013)

(Common to PTEC 6802 – Wireless Networks for B.E. (Part-Time) Seventh Semester – Electronics and Communication Engineering – (Regulations 2014))

Time : Three Hours

Maximum : 100 Marks

Answer ALL questions

PART – A

(10×2=20 Marks)

1. List the protocols used in Hiper LAN-2.
2. What are the characteristics of DSSS ?
3. Give the significance of socket pair.
4. How does tunneling help to deliver the packets in networking ?
5. Write the disadvantages of transmission/time-out freezing operation.
6. What is fast retransmit ? Mention its requirements.
7. What are the types of DHCP ?
8. Mention the significance of I_{ur} interface.
9. What is meant by multi carrier modulation ?
10. Define cognitive radio.

PART – B

(5×13=65 Marks)

11. a) Explain physical and MAC layer of Wimax.

(OR)

- b) Explain in detail the system architecture and protocol architecture of IEEE 802.11.



12. a) Explain :
- i) agent discovery and **(6)**
 - ii) registration mechanism in mobile IP. **(7)**

(OR)

b) Discuss in detail about IPv6.

13. a) Explain in detail snooping TCP and mobile TCP with its advantages and disadvantages.

(OR)

b) Discuss about TCP and 3G wireless networks in detail. Also compare these technologies.

14. a) Explain the responsibilities of RNC and Node B in UTRAN architecture.

(OR)

b) Explain in detail about LTE network architecture.

15. a) i) Compare the key parameters of 4G with 3G. **(8)**

ii) Discuss about the challenges in 4G. **(5)**

(OR)

b) Explain how adaptive modulation and coding techniques improve the spectral efficiency in future mobile networks.

PART – C

(1×15=15 Marks)

16. a) Explain dynamic source routing protocol in detail.

(OR)

b) Discuss in detail about HSDPA.
