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Question Paper Code: 40975

B.E./B.Tech. DEGREE EXAMINATION, APRIL/MAY 2018 Eighth Semester Electronics and Communication Engineering EC 6802 – WIRELESS NETWORKS (Regulations 2013)

Time: Three Hours

Maximum: 100 Marks

Answer ALL questions

PART – A

 $(10\times2=20 \text{ Marks})$

- 1. Give any three differences between HIPERLAN 1 and HIPERLAN 2.
- 2. What is IEEE 802.11? What are the functions of MAC layer in IEEE 802.11?
- 3. What is a Mobile IP? What are the entities of Mobile IP?
- 4. Differentiate an ad hoc network and a cellular network with respect to
 - a) Bandwidth usage
- b) Cost effectiveness.
- 5. Define the term slow start mechanism and Fast Retransmit algorithm in TCP.
- 6. How the destination correspondent host works?
- 7. What is UMTS? What are the layers of UMTS?
- 8. Give the significance about link adaption scheme.
 - 9. List the characteristics of 4G Network.
- 10. Give the advantages of Multicarrier Medulation over single carrier schemes.

PART – B

(5×16=80 Marks)

11. a) With neat sketch describe the architecture of IEEE 802.11 and explain the MAC Management Techniques. (16)

(OR)

b) i) Elucidate the advantages of WLAN Techniques.

(5)

ii) Explain the architecture of Hyperlan II protocal.

(11)

12. a) Explain the Mobile IP set IP Networks.	ession intiation protocol for IP pocket deliver	ry in Mobile (16)
(OR)		
b) Explain with neat diagra routing algorithm of Adh	am and example the destination sequence dist noc Networks.	cance vector (16)
13. a) i) Draw the overview of	classical enhancements to TCP for mobilit	y. (6)
ii) Explain in detail abou	ut Traditional TCP and its significance.	(10)
(OR)		
b) How the Mobile TCP is p Explain with overview o compare with 2.5/3G win	playing the important role in Mobile Transp of the classical enhancements to TCP for mo reless networks.	oort layer ? obility and (5+5+6
14. a) Explain in detail about l	LTE Wireless Systems.	(16)
(OR)		
b) i) Explain the technique	es about UMTS Network Reference Architec	cture. (8)
ii) Describe Channel Stru	ucture in UMTS Terrestrial Radio.	(8)
15. a) i) Define 4G and compar	re the key parameters of 4G with 3G.	(11)
ii) Write a note on Cognit		(5)
(OR)		
b) What is a multi-input mu	ulti-output (MIMO) system? Explain and c	compare. (16)
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