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B. Tech PFIT 5402

CENT

Eighth Semester Back Examination – 2015 UBIQUITOUS COMPUTING

BRANCH: IT

QUESTION CODE: M 219

Full Marks - 70

Time: 3 Hours

Answer Question No. 1 which is compulsory and any five from the rest.

The figures in the right-hand margin indicate marks.

Answer the following questions :

2×10

- (a) List the limitation of GPRS.
- (b) What is meant by cell splitting?
- (c) What are the basic features of WML?
- (d) What is tunneling?
- (e) What is the difference between orbital and elevation angels of satellite?
- (f) What are the basic functions of WAP gateway?
- (g) What do you mean by Roaming?
- (h) What is the use of EIR in GSM network?
- (i) What is CSMA/CA and why is it used in WLAN instead of CSMA/CD?
- Differentiate between Pico net and Scatter net.
- 2. (a) Describe the main steps of inter-BS and inter-MSC handoff procedures. 5
 - (b) Differentiate between TCP and wireless TCP.

5

3.	(a)	Define and differentiate between Remote Access VPN and Site-to s	
		VPN?	5
	(b)	Describe the protocol stack of Bluetooth.	5
4.	(a)	Describe the highlights of Symbian OS. Explain Symbian OS architectur	e.
			5
	(b)	Describe the WLL architecture.	5
5.	(a)	Explain the various system access modes used in CDMA 2000.	5
	(b)	Explain why cellular IP cannot be used in place of Mobile IP?	5
6.	(a)	Define Co-channel cell and Co-channel interference. How does co-channel	nel
		interference become a serious concern in the design of a cellular mob	ile
		system?	5
	(b)	Illustrate the difference between frequency hopping spread spectrum ar	nd
		direct sequence spread spectrum.	5
7.	Writ	e the GPRS architecture reference model. Further explain the netwo	rk
	sign	aling reference model for GPRS, in detail, with suitable diagram.	10
8.	Writ	e short notes on any two of the following : 5>	2
	(a)	Components of Cellular System	
	(b)	Satellite System Architecture	
	(c)	IMT-2000 Family.	