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Question Paper Code: 57492

B.E./B.Tech. DEGREE EXAMINATION, MAY/JUNE 2016

Sixth Semester

Computer Science and Engineering

IT 6601 - MOBILE COMPUTING

(Common to Information Technology

(Regulations 2013)

Time: Three Hours Maximum: 100 Marks

Answer ALL questions. $PART - A (10 \times 2 = 20 \text{ Marks})$

- 1. List the advantages of mobile computing.
- Explain hidden and exposed terminal problems in infrastructure-less network.
- 3. What is DHCP?
- 4. What is encapsulation in mobile IP?
- 5. List the 3 important features of GSM security.
- What are the main elements of UMTS.
- List the characteristics of MANETs.
- 8. Compare MANET Vs VANET.
- 9. Give four examples of Mobile OS.
- 10. What is M-Commerce?

$PART - B (5 \times 16 = 80 Marks)$

				2 1
11.	(a)	(i)	Explain the characteristics of Mobile computing.	(8)
		(ii)	Explain the structure of Mobile Computing Application.	(8)
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	(b)	Expl	ain the various taxonomy of MAC protocols in detail.	(16)
			B.F. P. PSCEN DECREE EXAMPLATION, MAY/JUNE 2016	
12.	(a)	(i)	With a diagram explain DHCP and its protocol architecture.	(8)
		(ii)	Explain IP-in-IP, Minimal IP and GRE encapsulation methods.	(8)
			OR	
	(b)	(i)	With a neat diagram explain the Architecture of TCP/IP.	. (8)
		(ii)	Explain the various improvements in TCP performance with diagram.	(8)
			To be a second of the second o	
13.	(a)	(i)	Describe GSM architecture and its services in detail.	
		(ii)	Explain GSM Authentication and Security.	(8)
			(a) $\mathbf{PART} = \mathbf{A}(10 \times 2 = 20) \cdot (\mathbf{AO}_{10})$	
	(b)	(i)	Explain GPRS and its Protocol architecture.	(8)
		(ii)	Explain in detail about UMTS architecture.	(8)
14.	(a)	(i)	Explain Characteristics, Applications of MANET.	(4+4)
		(ii)	Explain DSR Routing Protocols in detail.	(8)
			OR O	
	(b)	(i)	Draw and explain the architecture of VANET.	(8)
		(ii)	Explain the various Security and attacks on VANET.	(8)
			at are the main clements of UMTS.	W 8
15.	(a)	(i)	Explain the components of Mobile Operating Systems.	(8)
		(ii)	Write short notes on Android SDK.	(8)
			OR	
	(b)	(i)	Explain the various applications of M-Commerce.	(8)
		(ii)	Explain the Mobile payment schemes and Security issues.	(4+4)