Hall Ticket Number :										

R-11/R-13

Code: 1G473

IV B.Tech. I Semester Supplementary Examinations Nov/Dec 2017

Cryptography and Network Security

(Information Technology)

Max. Marks: 70 Time: 3 Hours

Answer any **five** questions
All Questions carry equal marks (**14 Marks each**)
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1.	a)	Explain about TCP session hijacking and ARP attacks	7M
	b)	How many types of security services are there? Illustrate about them	7M
2.		What is the need of message authentication? Describe SHA algorithm with a neat diagram.	14M
3.	a)	Write in detail about X.509 authentication service	7M
	b)	Explain about requirements and types of Digital signatures.	7M
4.		Explain in detail about S/MIME functionality.	14M
5.		List out the Security Association (SA) parameters and explain	14M
6.	a)	Explain about SSL Architecture with a neat diagram.	7M
	b)	What are the key features of SET and Who are the SET participants?	7M
7.	a)	Explain the significance of SNMPv1 in detail	7M
	b)	Explain about password protection and password selection strategies.	7M
8.		Explain the concept of trusted system and How trusted operating system is used to secure against Trojan horse attacks?	14M

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Hall Ticket Number :										

R-11 / R-13

Code: 1G472

IV B.Tech. I Semester Supplementary Examinations Nov/Dec 2017

Mobile Communications

(Common to CSE & IT)

Max. Marks: 70 Time: 3 Hours

Answer any **five** questions

All Questions carry equal marks (**14 Marks each**)

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1. a) Which types of different services does GSM offer? Give some examples and reasons why these services have been separated. 7M

   b) Explain any two handover scenarios in detail. 7M

2. a) Which of the MAC schemes can give hard guarantees related to bandwidth and access delay? Explain. 7M

   b) How does the near/far effect influence TDMA systems? What happens in CDMA systems? 7M

3. a) List the entities of mobile IP and describe data transfer from a mobile node to a fixed node. Why and where encapsulation needed. 7M

   b) What is the basic purpose of DHCP? Name the entities of DHCP. 7M

4. a) What is tunneling? Explain IP-in-IP packet format with neat block diagram. 7M

   b) Explain mobile node registration process in detail. 7M

5. List the characteristics specific to adhoc networks and explain any two application scenarios. 14M

6. a) If Bluetooth is a commercial success, What are remaining reasons for the use of infrared transition of WLANs? 7M

   b) Explain the architecture of Wireless Application Protocol. 7M

7. a) Distinguish power-aware and context-aware computing. 7M

   b) Explain recovery and quality service issues. 7M

8. Explain in detail about push-based and pull-based mechanisms. 14M

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