## B.E. Seventh Semester (Computer Science & Engineering) (CGS)

10341 : Computer Networks : 7 KS / 7 KE 02

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Max. Marks: 80

Tim	Time : Three Hours		rs * 0 6 5 9 * M	Max. Marks: 80	
1.	Note:	2. 3. 4. 5. 6.	All question carry equal marks.  Answer three question from Section A and three question from Section Due credit will be given to neatness and adequate dimensions.  Assume suitable data wherever necessary.  Diagrams and chemical equations should be given wherever necessary.  Illustrate your answer necessary with the help of neat sketches.  are the behaviour of SMTP and HTTP protocol.	7	
	b)	Explan	n the different types of HTTP connections.  OR	7	
2.	a)	What a	are roles of local name server, authoritative name server and root name serv	er? 7	
	b)	Explain	n various mail access protocols.	7	
3.	a)	Explain	n rdt 1.0 protocol in detail.	6	
	b)	When o	does the application developer use UDP and when does he prefer TCP? Exp	plain. 7	
			OR		
4.	a)	Explain	n rdt 2.0 protocol in detail.	6	
	b)	Explair	n GBN.	7	
5.	a)	Explair	n IP data fragmentation.	6	
	b)	Explain	n NAT protocol. What is the need and advantage of it.	7	
			OR		
6.	a)	Explain	n OSPF Routing algorithm in detail.	6	
	b)	Explain	n how a host can obtain a Host address.	7	
7.	a)	What is	s the possible services offered by Data link layer?	7	
	b)	Explain	n how CDMA is implemented.	7	
			OR		
8.	a)	How do	oes ARP resolves IP addresses to a LAN addresses?	7	
	b)	Explair	n the slotted ALOHA protocol.	7	

7

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## http://www.sgbauonline.com 9. a) Explain the properties of secure communication. b) What is purpose of nonce in an authentication protocol? OR

10.	What are the different types of cryptography? Using RSA, choose p=3 and q=11 and				
	encode the phrase "hello". Apply the decryption algorithm, to the encrypted version to				
	recover the original plaintext message.				

- 11. a) Explain the various network management tools?
  - b) What is the role of SMI in network management and its data types?

## OR

- 12. a) Explain the following terms in details,
  a) Managing entity.
  - What is firewall? List out various types of firewall and explain each in brief.

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Managing device.

b)

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