## BE/COMP/Sem-VII CBSGS/CSS

**QP Code: 31296** 

(Time: 3hrs)

(Marks 80)

1. Question No	1 is	compu	lsory.
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2. Attempt any three out of the remaining five questions.

	Q1. (a) Explain software flaws with examples  (b) List with examples the different mechanisms to achieve security  (b) Explain with examples, keyed and keyless transposition ciphers  (c) Elaborate the steps of key generation using RSA algorithm	05.1 05 05 05
	Q2. (a) A and B decide to use Diffie Hellman algorithm to share a key. They chose p=23 and g=5 as the public parameters. Their secret keys are 6 and 15 respectively. Compute the secret key that they share.  (b) Explain working of DES.	10
	<ul><li>Q3. (a) What is access control? How does the Bell La Padula model achieve access control.</li><li>Q3. (b) What is a digital signature. Explain any digital signature algorithm in detail.</li></ul>	10 10
	Q4. (a) Compare packet sniffing and packet spoofing. Explain session hijacking attack.	10
	Q4. (b) Explain working of Kerberos.	10
	Q5. (a) What is a firewall? What are the firewall design principles?  Q5. (b) What are the various ways for memory and address protection	05 05
	Q5. (c) Explain the significance of an Intrusion Detection System for securing a network. Compare signature based and anomaly based IDS.	. 10
	Q6. Write in brief about (any four):  i) Email Security.  ii) SSL handshake protocol  iii) IPSecorotocols for security  iv) Denial of service attacks  v) IDEA	20
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