Mid-West University

Examinations Management Office

Chance Examinations 2081

Bachelor level/ B.E. Computer/ 7th Semester

Time: 3 hours

Full Marks: 50
Pass Marks: 25

Subject: Network Security (CO476/CO557)

- Attempt all the questions

Figures in the margin indicate full marks. Assume suitable values, with a stipulation, if necessary. Candidates are required to answer the questions in their own words as far as possible.		
1.	What is network security? Explain its types.	[1+4]
2.	What is Substitution technique? Encrypt the Massage "Computer Network" using Caesar cipher with key K=3.	[4]
3.	Explain RSA Algorithm with example.	[5]
4.	Explain AES algorithm with neat block diagram.	[6]
5.	P and Q are two prime numbers. P=3, and Q=11. Take public key E=7. If plain text value is 31, then what will be cipher text value according to RSA algorithm? Again, calculate plain text value from cipher text.	[5]
6.	Explain message Authentication algorithm. Explain the types of authentication in detail.	[2+4]
7.	Explain IP security Architecture.	[4]
8.	What is Hash function? Explain digital signature algorithms.	[3+3]
9.	Explain briefly the desirable properties of secure communication. Explain, how Packet Filtering firewall works.	[5]
10	Explain Secure Socket layer and Transport layer Security with suitable example.	[2+2]