

Mid-West University
Examinations Management Office
End Semester Examinations 2081

Bachelor level/ B.E. Computer/ 7th Semester
Time: 3 hours
Subject: Network Security (CO557)

Full Marks: 50
Pass Marks: 25

- *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. Explain the aspect of security, different type of attack and network security services. [5]
2. Encrypt the message "Network Security" to playfair cipher using key "Computer". [5]
3. Explain feistel Cipher Structure. [4]
4. Explain one round AES algorithm process with neat block diagram. [4]
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 Authentication. Explain the types of authentication in detail. [5]
7. Explain IP security with proper Architecture. [5]
8. What do you know by user authentication mechanism? Explain digital signature algorithms. [4]
9. What is firewall? Explain its working technique. [5]
- 10 Explain secure electronic Transaction (SET) in detail. [3]
11. Write short on (any Two) [2.5x2]
 - a. Differentiate Asymmetric key and Symmetric key
 - b. RC4
 - c. Hash function