

Mid-West University  
**Examinations Management Office**

Chance Examinations -2080

Bachelor level/ B.E. Computer/ 7<sup>th</sup> 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. Define Network security? Explain the different type of attack [5]
2. Encrypt the message "Network at dawn" using play fair cipher with a key "Midwest". [5]
3. Differentiate between Asymmetric key and Symmetric key cryptography [4]
4. Explain AES algorithm with its block diagram and round function with all components [6]
5. P and Q are two prime numbers.  $P=7$ , and  $Q=17$ . Take public key  $E=5$ . If plain text value is 6, then what will be cipher text value according to RSA algorithm? Again calculate plain text value from cipher text. [5]
6. Explain Diffie Hellman Key exchange algorithm [5]
7. Explain the MD-5 algorithm with neat block diagram [5]
8. Define PGP? Explain Digital signature algorithm with block diagram . [5]
9. What is public key distribution? Explain the different type of public key distribution . [5]
10. What is VPN? Describe the different types of virus. [5]

**OR**

Explain PKI

**THE END**