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IT-801 (GS)

B.E. VIII Semester Examination, June 2020

Grading System (GS) Information Security

Time: Three Hours

Maximum Marks: 70

Note: i) Attempt any five questions.

- ii) All questions carry equal marks.
- 1. a) Define security. What are multiple layers of security?
 - b) Describe the critical characteristics of information. How are they used in computer security?
- 2. a) What is the purpose of the S-boxes in DES? Explain the avalanche effect.
 - b) What is steganography? How is it differs from cryptography?
- 3. Define following attacks in detail.
 - a) SQL injection attack
 - b) Phishing attack
 - c) Ransomware attack
- 4. Write the difference between diffusion and confusion. Explain with suitable example.
- 5. Explain hash function in detail. What characters are needed for secure hash function?

OR

Explain Euclidean algorithm. Solve gcd (1970, 1066) using Euclidean algorithm.

- 6. Define the following term related to cryptography.
 - a) Cipher

b) Plaintext

c) Cryptology

d) Cryptanalysis

e) Integrity

f) Availability

- 7. Explain following term
 - a) E-mail security

b) Penetration testing

OR

Explain Transport Layer Security (TLS). Explain its applications and functions.

- 8. Write short notes on any two:
 - a) Firewalls
 - b) Eavesdropping
 - c) Diffie Hellman key exchange
 - d) Web security
