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Roll No.

TBC/TBI-601

**B. C. A./B. SC. (IT)
(SIXTH SEMESTER)**

MID SEMESTER EXAMINATION, 2021

INFORMATION SECURITY AND CYBER

LAWS

Time : 1½ Hours

Maximum Marks : 50

**Note : (i) Answer all the questions by choosing
any *one* of the sub-questions.**

(ii) Each question carries 10 marks.

1. (a) Differentiate between the concern that a firm will feel after a threat and an attack. Explain which one is going to harm the information system of the firm the most in detail.

10 Marks (CO1)

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(b) If information system is the pillar of any organization in case of security measures. Describe the components of this pillar in detail. 10 Marks (CO1)

2. (a) Write a short Note on E-Commerce and describe any *four* of its models. 10 Marks (CO2)

OR

(b) Plain text : ATTACK FROM NORTH. Find the ciphertext by implementing Caesar cipher on the plaintext. 10 Marks (CO2)

3. (a) Describe the Security Mechanisms of X.800. 10 Marks (CO1)

OR

(b) In an organization the main server is getting requests from many users and responding them simultaneously, but after some time the system went into a halt state affecting the whole working of a firm. To overcome this the firm started allowing one request at a time from a user to the

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main server but after sometime the system again went into the halt state. 10 Marks (CO1)

(i) What is the main reason behind system halt in both cases explain.

(ii) In both the scenarios, what is going to affect the information system of the organization. Differentiate in points.

4. (a) Define EDI and Explain the transmission modes of the EDI. 10 Marks (CO2)

OR

(b) Describe the sequence of events that take place after a user clicks the button 'send' of an e-mail. 10 Marks (CO2)

5. (a) ATM are designed so that users will provide a PIN no, and a card to access their bank accounts. Describe, the degree of importance of CIA Triad associated in such system with example. 10 Marks (CO2)

OR

(b) Name and Explain any *three* Active Attacks. 10 Marks (CO2)