

**E-Business**  
**Assignment- Week 6**  
**TYPE OF QUESTION: MCQ/MSQ**

**Number of questions: 10**

**Total marks:  $10 * 2 = 20$**

**QUESTION 1:**

I observed that some additional income tax is charged to me. I placed a complaint with the tax department and got the details of the financial transaction that led to this additional tax deduction. The security category that best explains this process is \_\_\_\_\_.

- a. Integrity
- b. Availability
- c. Non-repudiation
- d. Auditing

**Correct Answer: d**

**Explanation: Slide 4**

**QUESTION 2:**

Denial of Service Attacks is a compromise on the system at the \_\_\_\_\_ layer of TCP/IP protocol stack.

- a. IP
- b. TCP
- c. Application
- d. Link

**Correct Answer: b**

**Explanation: Slide 11**

**QUESTION 3:**

The strength of a cryptographic algorithm is high if the \_\_\_\_ size is \_\_\_\_\_.

- a. Data packet, high
- b. Key, high
- c. Data packet, low
- d. Key, low

**Correct Answer: b**



**Explanation: Slide 27**

**QUESTION 4:**

I was getting frequent email communications from my bank for sharing my personal details and sharing my password to update this information. Upon sharing, I lost my money. While putting my complaints to the bank, I came to know that the emails were not from the bank. This type of attack is called

- a. Hacking
- b. Phishing
- c. Intruding
- d. None of the above

**Correct Answer: b**

**Explanation: Slide 42**

**QUESTION 5:**

Which of the following can be prevented using hash functions

- a. Insertion of message from fraudulent source
- b. Changing content of message
- c. Insertion, deletion and reordering of message sequence
- d. All of the above

**Correct Answer: d**

**Slide: 31**

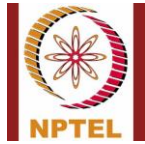
**QUESTION 6:**

Which of the following cryptographic algorithms are used in TLS protocol

- a. Symmetric key algorithms
- b. Asymmetric key algorithms
- c. Both symmetric and asymmetric key algorithms
- d. Hashing algorithms

**Correct Answer: c**

**Explanation: Slide 61 to 66**



**QUESTION 7:**

During the TLS protocol the digital certificate verification requires

- a. Certifying Authority's public and private key pair
- b. Certifying Authority's private key
- c. Certifying Authority's public key
- d. Certifying Authority's hash key

**Correct answer: c**

**Explanation: Slide 54**

**QUESTION 8:**

A web server throughput is 19.3 requests per sec. It turns out that server disk is the bottleneck resource. What is the service demand at the disk?

- a. 0.051694 sec
- b. 0.01405 sec
- c. 0.001737 sec
- d. 0.01sec

**Correct Answer: a**

**Explanation: Slide 88**

**QUESTION 9:**

During the execution of TLS protocol, if cached session states are available at client/server side and valid, which the following will happen

- a. The time taken to execute handshake protocol will reduce
- b. Information exchange for creating symmetric key for bulk message transfer is not necessary
- c. Time taken to execute record protocol will remain unchanged
- d. All of the above

**Correct Answer: d**

**Explanation: Slide 70 to 76**



NPTEL Online Certification Courses  
Indian Institute of Technology Kharagpur



**QUESTION 10:**

Which of the following is the work of Public Key Infrastructure (PKI) of a country

- a. Building public infrastructure for key exchange
- b. Development of security protocols
- c. Digital certificate issuance, validation and revocation
- d. Development of cryptographic algorithms

**Correct Answer: c**

**Explanation: Slide 56**

\*\*\*\*\*END\*\*\*\*\*