NPTEL Online Certification Courses

Indian Institute of Technology Kharagpur

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. Hackinging
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

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

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