All the Multiple Choice Question and Answer (MCQs) have been compiled from the books of Data Communication and Networking by the well known author behrouz A forouzan.

This Data Communication and Networking – **Security in the Internet: IPSec, SSL/TLS, PGP, VPN, and Firewalls** multiple choice Questions and Answers (MCQ) PDF covers the below lists of topics.

1. Security in the Internet Multiple Choice Question and Answer.
2. IPSec, SSL/TLS, PGP, VPN, and Firewalls Multiple Choice Question and Answer.

Practice now to sharpen your concept.

1. _____ is a collection of protocols designed by the IETF (Internet Engineering Task Force) to provide security for a packet at the network level.
   A. IPSec
   B. SSL
   C. PGP
   D. none of the above

2. _____ operates in the transport mode or the tunnel mode.
   A. IPSec
   B. SSL
   C. PGP
   D. none of the above

3. In the _____ mode, IPSec protects information delivered from the transport layer to the network layer.

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A. transport
B. tunnel
C. either (a) or (b)
D. neither (a) nor (b)

4. IPSec in the _____ mode does not protect the IP header.
   A. transport
   B. tunnel
   C. either (a) or (b)
   D. neither (a) nor (b)

5. The _____ mode is normally used when we need host-to-host (end-to-end) protection of data
   A. transport
   B. tunnel
   C. either (a) or (b)
   D. neither (a) nor (b)

6. In the _____ mode, IPSec protects the whole IP packet, including the original IP header.
   A. transport
   B. tunnel
   C. either (a) or (b)
   D. neither (a) nor (b)

7. IPSec defines two protocols: _____ and _____
   A. AH; SSL
   B. PGP; ESP
   C. AH; ESP
   D. none of the above

8. _____ provides authentication at the IP level.
 A. AH
 B. ESP
 C. PGP
 D. SSL

9. _____ provides either authentication or encryption, or both, for packets at the IP level.
 A. AH
 B. ESP
 C. PGP
 D. SSL

10. IPSec uses a set of SAs called the _____
 A. SAD
 B. SAB
 C. SADB
 D. none of the above

Answer key for MCQ SET- 1	
Q-1	Correct Answer :IPSec
Q-2	Correct Answer :IPSec
Q-3	Correct Answer :transport
Q-4	Correct Answer :transport
Q-5	Correct Answer :transport
Q-6	Correct Answer :tunnel
Q-7	Correct Answer :AH; ESP

Q-8	Correct Answer :AH
Q-9	Correct Answer :ESP
Q-10	Correct Answer :SADB

Security in the Internet multiple choice questions and answers MCQ Set-2

1._____ is the protocol designed to create security associations, both inbound and outbound.
   A. SA
   B. CA
   C. KDC
   D. IKE

2. IKE creates SAs for _____
   A. SSL
   B. PGP
   C. IPSec
   D. VP

3. IKE is a complex protocol based on _____ other protocols
   A. two
   B. three
   C. four
   D. five

4. IKE uses _____

A. Oakley
B. SKEME
C. ISAKMP
D. all of the above

5. **A _____network is used inside an organization.**
A. private
B. public
C. semi-private
D. semi-public

6. **An _____ is a private network that uses the Internet model**
A. intranet
B. internet
C. extranet
D. none of the above

7. **An _____ is a network that allows authorized access from outside users**
A. intranet
B. internet
C. extranet
D. none of the above

8. **The Internet authorities have reserved addresses for _____**
A. intranets
B. internets
C. extranets
D. none of the above

9. A _____ provides privacy for LANs that must communicate through the global Internet.
A. VPP
B. VNP
C. VNN
D. VPN

10. A _____ layer security protocol provides end-to-end security services for applications.
A. data link
B. network
C. transport
D. none of the above

Answer key for MCQ SET- 2	
Q-1	Correct Answer :IKE
Q-2	Correct Answer :IPSec
Q-3	Correct Answer :three
Q-4	Correct Answer :all of the above
Q-5	Correct Answer :private
Q-6	Correct Answer :intranet
Q-7	Correct Answer :extranet
Q-8	Correct Answer :none of the above
Q-9	Correct Answer :VPN
Q-10	Correct Answer :transport

Security in the Internet multiple choice questions and answers MCQ Set-3

1. _____ is actually an IETF version of _____
A. TLS; TSS
B. SSL; TLS
C. TLS; SSL
D. SSL; SLT

2. _____ provide security at the transport layer.
A. SSL
B. TLS
C. either (a) or (b)
D. both (a) and (b)

3. _____ is designed to provide security and compression services to data generated from the application layer.
A. SSL
B. TLS
C. either (a) or (b)
D. both (a) and (b)

4. Typically, _____ can receive application data from any application layer protocol, but the protocol is normally HTTP
A. SSL
B. TLS
C. either (a) or (b)
D. both (a) and (b)

5. **SSL provides _____**
   A. message integrity
   B. confidentiality
   C. compression
   D. all of the above

6. **The combination of key exchange, hash, and encryption algorithms defines a _____ for each SSL session**
   A. list of protocols
   B. cipher suite
   C. list of keys
   D. none of the above

7. **In _____, the cryptographic algorithms and secrets are sent with the message.**
   A. IPSec
   B. SSL
   C. TLS
   D. PGP

8. **One security protocol for the e-mail system is _____**
   A. IPSec
   B. SSL
   C. PGP
   D. none of the above

9. **_____ was invented by Phil Zimmerman**
   A. IPSec
   B. SSL
   C. PGP
   D. none of the above

10. ____ provides privacy, integrity, and authentication in e-mail
A. IPSec
B. SSL
C. PGP
D. none of the above

Answer key for MCQ SET- 3	
Q-1	Correct Answer :TLS; SSL
Q-2	Correct Answer :both (a) and (b)
Q-3	Correct Answer :both (a) and (b)
Q-4	Correct Answer :both (a) and (b)
Q-5	Correct Answer :all of the above
Q-6	Correct Answer :cipher suite
Q-7	Correct Answer :PGP
Q-8	Correct Answer :PGP
Q-9	Correct Answer :PGP
Q-10	Correct Answer :PGP