

75.	TLS used at
5.	a. Transport Layer System  Transport Layer Security  Which protocol is used to convey SSL related alerts to the  Compared to the security of t
-	c) Upper-Layer Protocol b) Handshale B
6.	
7.	oratids for
E	Message Authentication C-
-	Message Authentication Center b. Msg And Cipher  In the classic Control d. Media and Cipher
8.	In the alert protocol the first byte takes the value 1 or 2 which a. Select, Alarm

b. Alert, Alarm

b) Message Digest

d) Message Leap

c. Warning, Alarm d. Warning, Fatal

9. When a hash function is used to provide message

authentication, the hash function value is referred to as

10. Which one of the following is not an application hash

a) One-way password file b) Key wrapping c) Virus Detection d) Intrusion detection

respectively.

a. Select, Alarm

c) Message Score

## Part B (5\*4-20 Marks) Attempt any Five Questions M. Explain the layer that we used in SSL. 12. List out the security goals for UMTS 18. Define ALERT protocol in SSL 14. Define SQL injection. S. Explain in short Public Key Infrastructure. 16. Explain the diagrammatically representation of SSL. $^{\prime\prime}$ 17. Difference in between Infrastructure and AdHoc Infrastructure. Part C Attempt any Three Questions (3\*10=30 Marks) 18. What kind of Encryption we use in Secure Socket layer? Explain in details with suitable diagram. 19. Define the Handshake protocol for Transport Layer Security. 20. Define GSM with associated securities with suitable diagram. 21. Explain the Record Protocol for SSL. 22. Define Cross Site Scripting (XSS) in details.

Reg. RAL SET- B. SRM Institute of Science & Technolo.

Delhi NCR Campus, Modinagar, Ghaziabad Course/Branch: B. Tech/CSE Subject: Network Security CYCLE TEST - 2

Duration: 2 hoursMax. Marks: 60

Session: Code: 18CSE354

## Attempt all questions (10\*1=10 Marks)

- 1. Which component is included in IP security? a) Authentication Heade: (AH)b) Encapsulating Security Payload
  c) Internet key Exchange (TH)b) Encapsulating Security Payload c) Internet key Exchange (IKE)d) All of the menti ned
- Which two types of IPsec can be used to secure communications between two I ANICO between two LANs? a) AH tunnel mode. Both AH tunnel mode and ESP tunnel mode by F; p tunnel mode
- Public key cryptosystem is used for the encryptio of a) Messages b) Session c) Session key & Message d) Public Key
- 4. In tunnel mode, IPSec protects the a) Entire IP packetb) IP headerc) IP payloadd) IP ailer
- 5. In which phase of IKE p otocol is peer authentica ion performed? a) Phase 1 b) Pre initialization Phase c) Prase 2 d) No peer authentication is performed.
- 6. Q1 S/MIME is abbreviated as
  - a) Secure/Multimedia Internet Mailing Extensions
  - b) Secure/Multipurpose Internet Mailing Extensic 3
  - c) Secure/Multimedia Internet Mail Extensions
  - d) Secure/Multipurpose Internet Mail Extensions
- 7. which of the following encryption algorithm are s prorted by SMIME
  - a. RSA. b. DESc. 3DESd. SHA

- From the options below, which of them is not a threat to a) Disasterb) Eavesdroppinge) Information leakage
  d) Unchanged default password
- Which of the following is not a secured mail transferring methodology;
  a) POP3 b) SSMTPc) Mail using PGrd) SMIME
- 10. Which mode of IPsec should you use to assure the security and confidentiality of data within the same LAN?

  b. ESP tops. a. AH transport mode

  b. ESP transport mode
  d. AH transport mode d. AH tunnel mode

## Part B

Attempt any Five Questions

(5×4=20 Marks)

Explain the role of private key and public key in email security. 12. How is ISAKMP distinct from key exchange protocols?

13. Define IPSec in short.

Write down the five applications of IP Security.

15.Discuss the source authentication based on public key technology.

16. Differentiate between IPv4 and IPv6 in context to security.

17. Write a short note on Security services for e-mail.

CCCADDD, AB

## Attempt any Three Questions Part C (3\*10=30 Marks)

18.Explain security policy database in brief. Write each entry information only contain in security policy database

19. What is IKE (Internet Key Exchange)? Define the phases of IKE in details with suitable diagram.

28. Explain PGP in details. Also explain the digital signature with suitable diagram.

21. What are the advantages of MIME over the SMTP.

22. Explain the Transport and Tunnel mode for AH and ESP with suitable diagram.