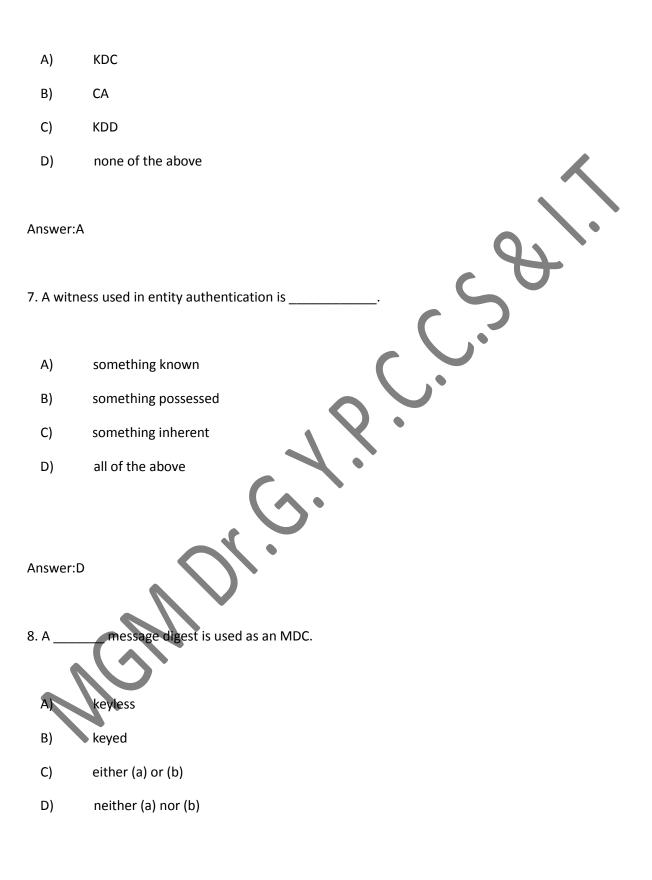
# **Internet Security**

## **Multiple Choice Question & Answers:-**

1. Messag	re means that the data must arrive at the receiver exactly as sent.
A)	confidentiality
В)	integrity
C)	authentication
D)	none of the above
Answer:B	
2. Messag sender, no	te means that the receiver is ensured that the message is coming from the intended of an imposter.
A)	confidentiality
В)	integrity
C)	authentication
D)	none of the above
Answer:C	
3. A(n)	function creates a message digest out of a message.
A)	encryption

B)	decryption
C)	hash
D)	none of the above
Answer:C	
4. The sec	ret key between members needs to be created as a key when two members contact
A)	public
B)	session
C)	complimentary
D)	none of the above
Answer:B	
5. The	criterion ensures that a message cannot easily be forged.
A)	one-wayness
B)	weak-collision-resistance
C) D)	strong-collision-resistance none of the above
,	
Answer:B	
6. A(n)	is a trusted third party that assigns a symmetric key to two parties.



9. A(n)	creates a secret key only between a member and the center.
A)	CA
B)	KDC
C)	KDD
D)	none of the above
Answer:B	
10	means to prove the identity of the entity that tries to access the system's resources.
A)	Message authentication
В)	Entity authentication
C)	Message confidentiality
D)	none of the above
Answer:B	
11. A	signature is included in the document; a signature is a separate entity.
A)	conventional; digital
В)	digital; digital
C)	either (a) or (b)

D)	neither (a) nor (b)
Answer:A	
12. If	is needed, a cryptosystem must be applied over the scheme.
A)	integrity
В)	confidentiality
C)	nonrepudiation
D)	authentication
Answer:B  13. Digital	signature provides
A)	authentication
В)	nonrepudiation
C)	both (a) and (b)
D)	neither (a) nor (b)
Answer:C	
14. Digital	signature cannot provide for the message.
A)	integrity

В)	confidentiality
C)	nonrepudiation
D)	authentication
Answer:B	
15. To auth	nenticate the data origin, one needs a(n)
	94.
A)	MDC
В)	MAC
C)	either (a) or (b)
D)	neither (a) nor (b)
Answer:A	
16. A(n)	can be used to preserve the integrity of a document or a message.
A)	message digest
В)	message summary
C) (	encrypted message
D)	none of the above
Answer:A	
17. Challer	nge-response authentication can be done using .

A)	symmetric-key ciphers
B)	asymmetric-key ciphers
C)	keyed-hash functions
D)	all of the above
Answer:D	941.
18. The _	criterion ensures that we cannot find two messages that hash to the same digest.
A)	one-wayness
B)	weak-collision-resistance
C)	strong-collision-resistance
D)	none of the above
Answer:C	
19. A digit	tal signature needs a(n) system.
A) B)	symmetric-key asymmetric-key
C)	either (a) or (b)
D)	neither (a) nor (b)

20. A(n) certificate.	is a federal or state organization that binds a public key to an entity and issues a
A)	KDC
В)	Kerberos
C)	CA
D)	none of the above
Answer:C	
21. Messag	ge means that the sender and the receiver expect privacy.
A)	confidentiality
В)	integrity
C)	authentication
D)	none of the above
Answer:A	
22. In	authentication, the claimant proves that she knows a secret without actually sending it.
A)	password-based
В)	challenge-response
C)	either (a) or (b)
D)	neither (a) nor (b)

Answer:B	
23. In witnesses.	, a claimant proves her identity to the verifier by using one of the three kinds of
A)	message authentication
В)	entity authentication
C)	message confidentiality
D)	message integrity
Answer:B	
24. The	criterion states that it must be extremely difficult or impossible to create the message if
the messa	ge digest is given.
A)	one-wayness
B)	weak-collision-resistance
C)	strong-collision-resistance
D)	none of the above
Answer:A	
25. A(n)	is a hierarchical system that answers queries about key certification.

A)

KDC

В)	PKI
C)	CA
D)	none of the above
Answer:C	
26	means that a sender must not be able to deny sending a message that he sent.
A)	Confidentiality
В)	Integrity
C)	Authentication
D)	Nonrepudiation
Answer:D	
27. A hash	function must meet criteria.
A)	two
В)	three
C)	none of the above
Answer:B	
	is a popular session key creator protocol that requires an authentication server and a
ticket-gran	ting server.

A)	KDC
B)	Kerberos
C)	CA
D)	none of the above
Answer:B	8
29. Passwo	rd-based authentication can be divided into two broad categories: and
A)	fixed; variable
В)	time-stamped; fixed
C)	fixed; one-time
D)	none of the above
Answer:C	
30	operates in the transport mode or the tunnel mode.
	IPSec SSL PGP
D)	none of the above

Answer:A

31. IKE c	creates SAs for
A)	SSL
В)	PGP
C)	IPSec
D)	VP
Answer:(	C provides either authentication or encryption, or both, for packets at the IP level.
32	provides either authentication or encryption, or both, for packets at the IP level.
A)	АН
В)	ESP
C)	PGP
D)	SSL
Answer:l	В
33. One	security protocol for the e-mail system is
A)	IPSec
В)	SSL
C)	PGP
D)	none of the above

### Answer:C

34protoco	١iς	normally	HTTP
3 <del>1</del> 0101010	ııs	HOHIMANY	

- A) SSL
- B) TLS
- c) either (a) or (b)
- D) both (a) and (b)

Answer:

35. IKE is a complex protocol based on \_\_\_\_\_ other protocols.

- A) two
- B) three
- C) four
- D) five

Answer:B

36. IPSec defines two protocols: \_\_\_\_\_ and \_\_\_\_

- A) AH; SSL
- B) PGP; ESP

C)	AH; ESP
D)	all of the above
Answer:A	
27 10 46 -	
layer.	mode, IPSec protects information delivered from the transport layer to the network
	transport.
A)	transport
B)	tunnel
C)	either (a) or (b)
D)	neither (a) nor (b)
Answer:A	
38	is the protocol designed to create security associations, both inbound and outbound.
A)	SA
B)	CA
C)	KDC
D)	IKE
Answer:D	
39. A	network is used inside an organization.

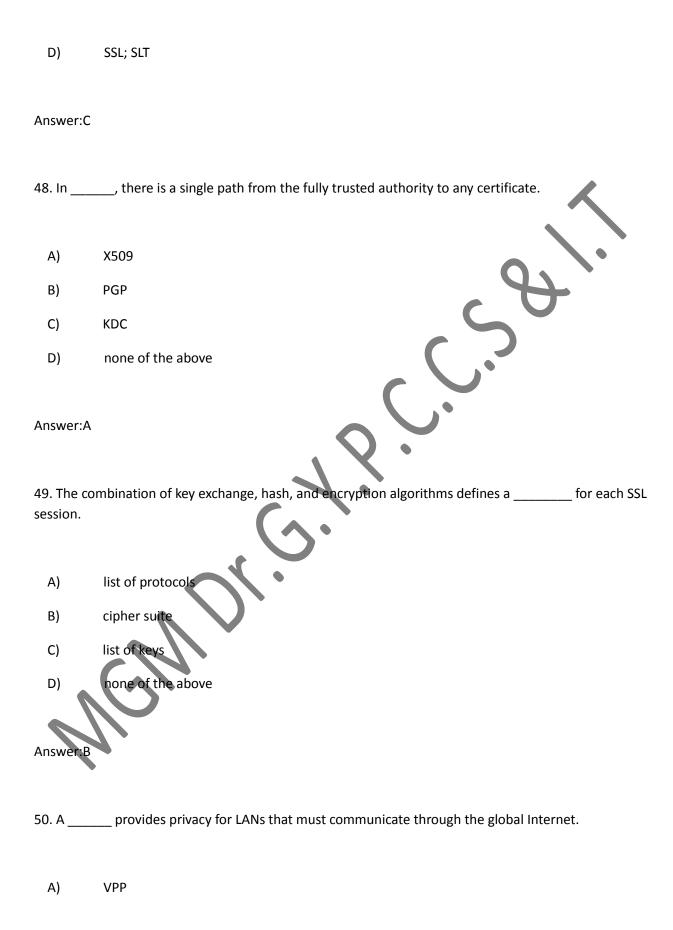
A)	private
B)	public
C)	semi-private
D)	semi-public
Answer:A	
40. SSL pro	ovides
A)	message integrity
В)	confidentiality
C)	compression
D)	all of the above
Answer:D	
41. The In	ternet authorities have reserved addresses for
A) B) C) D)	intranets internets extranets none of the above

Answer:D

42. An	is a network that allows authorized access from outside users.
A)	intranet
В)	internet
C)	extranet
D)	none of the above
Answer:C	34.
	is a collection of protocols designed by the IETF (Internet Engineering Task Force) to
provide sed	curity for a packet at the network level.
A)	IPSec
В)	SSL
C)	PGP
D)	none of the above
Answer:A	
44. IKE use	
A)	Oakley
В)	SKEME
C)	ISAKMP
D)	all of the above

#### Answer:D

45. IPSec u	ses a set of SAs called the
A)	SAD
В)	SAB
C)	SADB
D)	none of the above
Answer:C	C.3
46. An	is a private network that uses the Internet model.
A)	intranet
В)	internet
C)	extranet
D)	none of the above
Answer:A	
47.	is actually an IETF version of
A)	TLS; TSS
В)	SSL; TLS
C)	TLS; SSL



B)	VNP
C)	VNN
D)	VPN
Answer:D	
51	uses the idea of certificate trust levels.
	44
A)	X509
B)	PGP
C)	KDC
D)	none of the above
Answer:B	
52. IPSec i	n the mode does not protect the IP header.
A)	transport
В)	tunnel
C) (	either (a) or (b)
D)	neither (a) nor (b)
Answer:A	
53	provides privacy, integrity, and authentication in e-mail.

A)	IPSec
В)	SSL
C)	PGP
D)	none of the above
Answer:	c
	44
54. ln	, there can be multiple paths from fully or partially trusted authorities.
A)	X509
В)	PGP
C)	KDC
D)	none of the above
Answer:	В
55	provides authentication at the IP level.
A)	АН
В)	ESP
C)	PGP
D)	SSL

Answer:A

56. In	, the cryptographic algorithms and secrets are sent with the message.
A)	IPSec
B)	SSL
C)	TLS
D)	PGP
	44
Answer:D	
57	is designed to provide security and compression services to data generated from the
application	layer.
A)	SSL
В)	TLS
C)	either (a) or (b)
D)	both (a) and (b)
Answer:D	
•	
58.	provide security at the transport layer.
A)	SSL
В)	TLS
C)	either (a) or (b)
D)	both (a) and (b)

A)	transport	
B)	tunnel	
C)	either (a) or (b)	+
D)	neither (a) nor (b)	
Answer:	:А	
60. In th	ne mode, IPSec protects the whole IP packet, including the original IP	heade
A)	transport	
B)	tunnel	
C)	either (a) or (b)	
D)	neither (a) nor (b)	
Answer:		
61	was invented by Phil Zimmerman.	
A)	IPSec	
B)	SSL	

C)	PGP
D)	none of the above
Answer:C	
62. A	layer security protocol provides end-to-end security services for applications.
A)	data link
В)	network
C)	transport
D)	none of the above
Answer:C 63. In PGP,	to exchange e-mail messages, a user needs a ring of keys.
A)	secret
B)	public
C)	either (a) or (b)
D)	both (a) and (b)
D)	both (a) and (b)
Answer:B	
64. A user	needs to send the server some information. The request line method is

A)	OPTION
В)	PATCH
C)	POST
D)	none of the above
Answer:	
65. In a l	JRL, the is the client-server program used to retrieve the document.
A)	path
В)	protocol
C)	host
D)	none of the above
Answer:	В
66. A	document is created by a Web server whenever a browser requests the document.
A) B) C)	static dynamic active
D)	none of the above

67. One w	yay to create an active document is to use
A)	CGI
В)	Java stand-alone programs
C)	Java applets
D)	none of the above
	44
Answer:C	
68. A cool	kie is made by the and eaten by the
	~ \to.
A)	client; client
В)	client; server
C)	server; server
D)	none of the above
Answer:C	
69. A	document is a fixed-content document that is created and stored in a server. The client
can get a	copy of the document only.
A)	static
В)	dynamic
C)	active
D)	none of the above

70. The	is a standard for specifying any kind of information on the Internet.
A)	URL
В)	ULR
C)	RLU
D)	none of the above
Answer:A	
71	is a repository of information linked together from points all over the world.
A)	The WWW
В)	НТТР
C)	HTML
D)	none of the above
Answer A	of the following is present in both an HTTP request line and a status line?
A)	HTTP version number
В)	URL

C)	status code	
D)	none of the above	
Answer:A		
73. Active	documents are sometimes referred to as dy	ynamic documents.
		0. /.
A)	client-site	44
B)	server-site	5
C)	both a and b	
D)	none of the above	
		<b>)</b>
Answer:A	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	
74. HTTP	uses the services of on well-known port 80.	
A)	UDP	
В)	IP .	
C)	TCP	
D)	none of the above	
Answer:C		
75. Dynan	nic documents are sometimes referred to as	dynamic documents.

A)	client-site	
B)	server-site	
C)	both a and b	
D)	none of the above	
Answer:	В	
76. For n	many applications, we ne documents.	eed a program or a script to be run at the client site. These are called
	documents.	
A)	static	
B)	dynamic	
C)	active	
D)	none of the above	
Answer:	c	
77. In HT	TTP, aserver is a	a computer that keeps copies of responses to recent requests.
A) B) C)	regular proxy both a and b	
D)	none of the above	

	TP request line contains a method to get information about a document without the document itself.
A)	HEAD
В)	POST
C)	СОРУ
D)	none of the above
Answer:A	59
79. A resp	onse message always contains
A)	a header and a body
B)	a request line and a header
C)	a status line and a header
D)	none of the above
Answer:C	
	RL, an optional can be inserted between the host and the path, and it is separated
from the r	ost by a colon.
A)	path
В)	protocol
C)	host
D)	none of the above

81. An ap	plet is	_ document	application p	orogram.				
A)	a static							
B)	an active							•
C)	a passive					. 4	4	
D)	a dynamic					5		
Answer:B	s.							
82. The d	ocuments in th	าe WWW car	n be grouped	l into	_ broad categ	ories.		
A)	two		(					
B)	three	-4						
C)	four							
D)	none of the	above						
Answer: B		language for	r creating We	eb pages.				
A)	HTTP							
В)	HTML							

C)	FTTP
D)	none of the above
Answer:B	
84	is a technology that creates and handles dynamic documents.
A)	GIC
B)	CGI
C)	GCI
D)	none of the above
Answer:B	
85. The H1	TP request line contains amethod to request a document from the server.
A)	GET
B)	POST
C)	COPY
D)	none of the above
Answer:A	
86. In a a response	connection, the server leaves the connection open for more requests after sending e.

A)	persistent
В)	nonpersistent
C)	both a and b
D)	none of the above
Answer:A	
87. An HTT	P request message always contains
A)	a header and a body
В)	a request line and a header
C)	a status line, a header, and a body
D)	none of the above
Answer:B	
88. In a	connection, one TCP connection is made for each request/response.
A) B)	persistent
C)	both a and b
D)	none of the above

89. In a UF	RL, the is the full name of the file where the information is located.
A)	path
B)	protocol
C)	host
D)	none of the above
Answer:A	391.
90. In a UF	RL, the is the computer on which the information is located.
A)	path
B)	protocol
C)	host
D)	none of the above
Answer:C	Holle of the above
91. HTTP v	version 1.1 specifies aconnection by default.
A)	persistent
В)	nonpersistent
C)	both a and b
D)	none of the above

### Answer:A

	P, the first line in a rest called the		_ line; the first line in the response
A)	request; response		
В)	response; request		
C)	response; status		Or,
D)	none of the above		6
		client-server service, in which	a client using a browser can access a
A)	limited	(4.)	
В)	vast	· ·	
C)	distributed		
D)	none of the above		
Answer:C			