Total No. of Questions: 12]	SEAT No. :
P3181	[Total No. of Pages :2
	[4859]-222

B.E.(Computer Engineering) **INFORMATION SECURITY (IS)** (2008 Pattern) (Elective-IV)

Time: 3 Hours] [Maximum Marks: 100]

Instructions to the candidates:

- Answer three questions from section-I and three questions from section-II
- Answer to the two sections should be written in separate answer books. 2)
- 3) Neat diagrams must be drawn wherever necessary.
- Figures to the right side indicate full marks. 4)
- Assume suitable data if necessary. 5)

SECTION - I

- What are different attributes of information security? Explain each in *Q1*) a) detail. [10]
 - Explain lifecycle of information security with diagram. b) [8]

OR

- Explain security architecture in detail with suitable diagram. *O2*) a) [10]
 - What is mechanism in security? Discuss any one mechanism in detail.[8] b)
- *Q3*) a) What secrete key and cryptography? Discuss both with suitable example.

[8]

Explain Triple DES algorithm with advantages over DES algorithm. [8] b)

OR

Explain RC4 algorithm in detail *Q4*) a)

[8]

- What is ciphering? Explain any two ciphering technique with suitable b) example. [8]
- Differentiate public key and private key cryptography with suitable **Q5)** a) example. [8]
 - b) What key management in security? Explain any one algorithm for key management. [8]

OR

P.T.O.

a)	Encrypt message using ECC argorithm. Take any message as a san	npie.[8]
b)	What is man-in-middle attack? Discuss with suitable example.	[8]
	SECTION - II	
a)	What is Kerberos? Explain working principles of it in detail.	[10]
b)	Discuss PKI in detail.	[8]
	OR	
a)	What is MD5? Explain MD5 in detail with its applications.	[10]
b)	What hash function? Differentiate hash function and MAC with form	ulae.[8]
a)	Explain design principle of Firewall.	[8]
b)	Differentiate TLS and SSL.	[8]
	OR	
) a)	Discuss working principles of Intrusion Prevention System.	[8]
b)	Differentiate IDS and Intrusion Prevention System.	[8]
) a)	What Electronic commerce security? Explain SET in short.	[8]
b)	What is PGP? Describevitsippdetailne.com	[8]
	OR	
Q12) Write a short note on followings.		[16]
a)	PGP	
b)	Smart Cards	
c)	PEM	
d)	S/MIME	
	a) a) b) a) b) a) b) b) wri a) b) c)	By What is man-in-middle attack? Discuss with suitable example. SECTION - II a) What is Kerberos? Explain working principles of it in detail. Discuss PKI in detail. OR a) What is MD5? Explain MD5 in detail with its applications. b) What hash function? Differentiate hash function and MAC with form a) Explain design principle of Firewall. Differentiate TLS and SSL. OR Discuss working principles of Intrusion Prevention System. b) Differentiate IDS and Intrusion Prevention System. Differentiate IDS and Intrusion Prevention System. What Electronic commerce security? Explain SET in short. b) What is PGP? Describe it simple tailine.com OR Write a short note on followings. a) PGP b) Smart Cards c) PEM

