D2101	SEAT No.:	
P3181	[Total No. of Pages :2	

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

Time: 3 Hours] [Maximum Marks: 100

Instructions to the candidates:

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

SECTION - I

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

OR

- **Q2)** a) Explain security architecture in detail with suitable diagram. [10]
 - b) What is mechanism in security? Discuss any one mechanism in detail.[8]
- **Q3)** a) What secrete key and cryptography? Discuss both with suitable example.

[8]

[8]

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

OR

Q4) a) Explain RC4 algorithm in detail

[8]

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

OR

		<u>SECTION - II</u>	
Q7)	a) b)	What is Kerberos? Explain working principles of it in detail. Discuss PKI in detail.	[10] [8]
		OR	
Q8)	a)	What is MD5? Explain MD5 in detail with its applications.	[10]
b	b)	What hash function? Differentiate hash function and MAC with form	nulae. [8]
Q9)	a)	Explain design principle of Firewall.	[8]
	b)	Differentiate TLS and SSL.	[8]
		OR	
Q10) (a)	Discuss working principles of Intrusion Prevention System.	[8]
	b)	Differentiate IDS and Intrusion Prevention System.	[8]
Q 11,) a)	What Electronic commerce security? Explain SET in short.	[8]
	b)	What is PGP? Describe it in detail.	[8]
		OR	
Q12)Wri	ite a short note on followings.	[16]
	a)	PGP	
	b)	Smart Cards	
	c)	PEM	
	d)	S/MIME	

Encrypt message using ECC algorithm. Take any message as a sample. [8]

[8]

What is man-in-middle attack? Discuss with suitable example.

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Q6) a)

b)