B.E. IT. Sem-T

May- June- 2012

SEAT No.:

P1473

[Total No. of Pages: 2

[4164]-721

B.E. (Information Technology) INFORMATION ASSURANCE AND SECURITY

(2008 Pattern) (Sem. - I)

Time: 3 Hours

[Max. Marks:100]

Instructions to the candidates:

Total No. of Questions: 12]

- 1) Answer question 1 or 2, 3 or 4, and 5 or 6 from Section - I and question 7 or 8, 9 or 10 and 11 or 12 from Section - II.
- 2) Answers to the two sections should be written in separate books.
- Neat diagrams must be drawn wherever necessary. 3)
- Figures to the right indicate full marks. 4)
- Use of logarithmic tables slide rule, Mollier charts, electronic pocket 5) calculator and steam tables is allowed.
- Assume suitable data, if necessary. 6)

SECTION - I

- What are the different types of ciphers? Explain in detail. **(01)** a) [10]Differentiate between Active attacks & Passive attacks. [8]

Enlist the Security goals and mechanism in detail. (02)a) [10]

OR

State Euclid's Algorithm with example? b)

[8]

- What are the possible attacks on DES? Explain double DES and triple O3)a) DES. [10]
 - b) Explain the working of MD5 in detail.

[6]

OR

O4)Write working of AES algorithm in detail.

[10]

- b) Calculate Cipher text using RSA algorithm. Given data is as follows:-Prime numbers P, Q as 7, 17 respectively & the plain text is to be send is 10. [6]
- What is PKI? Explain the different PKI Architectures. O(5)

[8]

b) Encryption does not solve all the security problems: Justify.

[8]

OR

<i>Q6)</i>	a)	Explain the Needham/Schroeder Protocol for secret key distribution.[8]
Ten s	b)	How the Digital Certificate creation takes place? Enlist the contents of digital certificate. [8]
		<u>SECTION - II</u>
Q7)	a)	What is IPSEC? How does AH and ESP differs while working under Tunnel Mode and Transport Mode? [10]
and the second s	b)	What is IDS? Explain working of Honeypots as Intrusion detection system. [6]
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Q8)	a)	What is SSL? Explain the SSL architecture in detail. [10]
	b)	Explain the different phases in IKE-Internet Key Exchange Protocol.[6]
Q9)	a)	Which are the key participants in SET? How does SET protect payment information from the merchant? Explain the SET model. [10]
	b)	Write a note on Smart Cards and Chip Cards transaction. [6]
		OR
Q10)	a)	What are the possible attacks on the E-Transaction using cards. [4]
	b)	Explain the steps to carry out Payment over the Internet. [6]
	c),	Write a note on Electronic Cash. [6]
Q11)	a)	Explain in detail about Information Security Policy. [8]
	b)	What are different methods of Industrial Espionage? How can we prevent
•		Industrial Espionage? [10]
		OR
Q12) Write Short Notes on:		
	a)	Indian IT Act.
	b)	Security by obscurity.
\$ 100 miles	c)	Computer Forensics.