Total No	o. of Questions : 12] SEAT No. :	$\neg$		
P2809	[5154]-190-A [Total No. of Pages :	2		
B.E. (Computer)				
INFORMATION SECURITY				
(2008 Course) (Semester -II) (410451 D)				
Time: 3	Hours] [Max. Marks : 10	nn		
	ions to the candidates:	70		
1)	Answer THREE questions from Section I and THREE questions from Section I	II.		
2)	Answers to the TWO sections should be written in SEPRATE answer books.			
3)	Neat diagrams must be drawn wherever necessary.			
<i>4</i> )	Figures to the right indicate full marks.			
	SECTION -I			
<b>Q1</b> ) a)	Enlist and explain different types of cryptographies in detail. [10]	0]		
b)	Describe different standard or information security in detail.	8]		
,	OR O			
<b>Q2</b> ) a)	What is transposition scheme of cryptography & Explain any one method	od		
	of it with suitable example. [10]	0]		
b)	Apply any one algorithm to secure your confidential document.	8]		
		(		
<b>Q3</b> ) a)	Describe DES algorithm with example.	8]		
b)	What is ciphering? Explain any one with suitable example.	8]		
	OR			
<b>Q4</b> ) a)		8]		
b)		8]		
- /				
<b>Q5</b> ) a)	What is ECC? Explain with suitable example to encrypt a message. [8]	8]		
~		_		
b)		8]		
	OR OR			

Explain number theory with its applications.

Write and explain DH algorithm in detail.

*P.T.O.* 

[8]

[8]

**Q6**) a)

b)

## **SECTION -ID**

<b>Q7</b> ) a)	What is MAc? Explain it's principles of working.	[10]
b)	What is PKI? Discuss it with suitable example.	[8]
	OR	
<b>Q</b> 8) a)	Discuss applications of DSA in detail with suitable example.	[10]
b)	What is HMAC? Differentiate HMAC & MAC.	[8]
<b>Q9</b> ) a)	What is SSL? Explain SSL in detail.	[8]
b)	What is intrusion presentation system? Differential IDS and IPS.	[8]
	OR	
<b>Q10</b> ) a)	Discuss different modules of IDS.	[8]
b)	Explain firewall's. Design principles.	[8]
	×., 5, 5,	
<b>Q11</b> )a)	Explain format of S/MIME in detail.	[8]
b)	What is PEM? Discuss it in detailine.com	[8]
	OR	
Q12)Write a short note on following:		[16]
a)	X. 50g	Til.
b)	Electronic Commerce Security	3
c)	Security Mechanisms.	)′
d)	PGP.	
	$\otimes \otimes \otimes$	
	X. 50g Electronic Commerce Security Security Mechanisms. PGP.	
[5155]-1	90-A 2 ×°	