CBCS SCHEME

USN												A	g		15CS743	
		Se	ven	th	Sei	nes	ter	B.E.	Degr	ee Exa	amina	tion, Ju	ıne/Ju	ly 2019	•	
											- A TOURS	Secu				
										1140	1 % °					
Tim	0. 3	hrs.								1	X,			Max. M	larks: 80	
1 1111				ON 01	nv. I		full	anast	ions c	hoosing	ONE for	ıll questi	A.			
	INU	te: A	IISW	ei a	пул	LIVE	lun	quesi		Professional Contraction of the		in questi				
	Module-1 a. Given the Caesar's cipher find plain text from the ciphertext DQWUDUHS														OTEDHED	
1	a.	Give	en th	e Ca	aesa	r's c	ipher	find	plain te	xt from	the cipn	iertext Di	(WOD)	JUSASK	(03 Marks)	
	b.	Encrypt the message "We are all together" using a double transposition cipher with 4 rows														
	0.	and	4 co	lumı	ns, ı	ısing	the 1	row po	ermutat	ion (1, 2	(2, 3, 4) -	\rightarrow (2, 4, 1	, 3) and	column p	permutation	
		(1, 2)	2, 3,	4) —	→ (3)	, 1, 2	, 4).	_ P #			45				(05 Marks)	
	c.		-	nat o	ne	fine p	oad is	s prov	ably sec	cure. Als	so give t	he reason	why we	e cannot	use the key	
		twic	ee.								X				(08 Marks)	
										OB	47					
2		D-4	a 41				ei.	n and	diffusio	OR in the	context	of crypto	Jogy		(02 Marks)	
2	a. b.								of ciphe		Context	of crypto	nogy.		(06 Marks)	
	c.							yptana							(08 Marks)	
	•	011						JI				43				
									M	odule-2	2	9				
3	a.	Elal	oorat	e Bi	rthd	lay pi	roble	m and	correla	ate it wit	h hash f	unctions.			(06 Marks)	
	b.												e.	(10 Marks)		
										OD			× *			
4	0	Dia	0)),00	1:tt	ron	t ach	amac	, ucad	in coor	OR et cherin	a with a	pecial ref	erence to	o key Esc	crow	
4	a.	DIS	cuss	anne	eren	it sen	emes	s useu	III Secre	et Silai III	g with sp	peciai ici	crence to	J KCy LSC	(08 Marks)	
	b.	Me	ntion	the	sig	nific	ance	of ge	neratin	g prope	r randon	n number	rs, with	special 1	reference to	
						Poke					1				(08 Marks)	
								(3			1				
			19	7						odule						
5	a.									echanisi					(08 Marks)	
	b.	6. Explain Dynamic password scheme with an example. (08 M													(08 Marks)	
	-					G				OR						
6	a.	Lis	t the	com	por	nents	of cr	ryptog	raphic 1		. Also m	ention th	e stages	involved	l in protocol	
			ign.			4		J1 0	(Ash.)						(08 Marks)	
	b.			abo	ut D	effie	- H	ellama	n key a	agreeme	nt protoc	col.			(08 Marks)	
				45				, 4	W.							

Module-4

7 a. Briefly explain the key Life cycle.

(06 Marks)

Explain different types of key generation in detail.

(10 Marks)

OR

8 a. Briefly explain the concept of IDPKC. (06 Marks)
b. Explain different public key Management modules in detail. (10 Marks)

Module-5

9 a. Explain how cryptography is used in SSL.
b. Discuss about SSL handshake protocol.
c. List the design issues in SSL.
(06 Marks)
(06 Marks)
(04 Marks)

OF

a. Explain about Cryptography use in magnetic stripe cards.
 b. Discuss in detail, Cryptography for home users with respect to File protection and Email security.