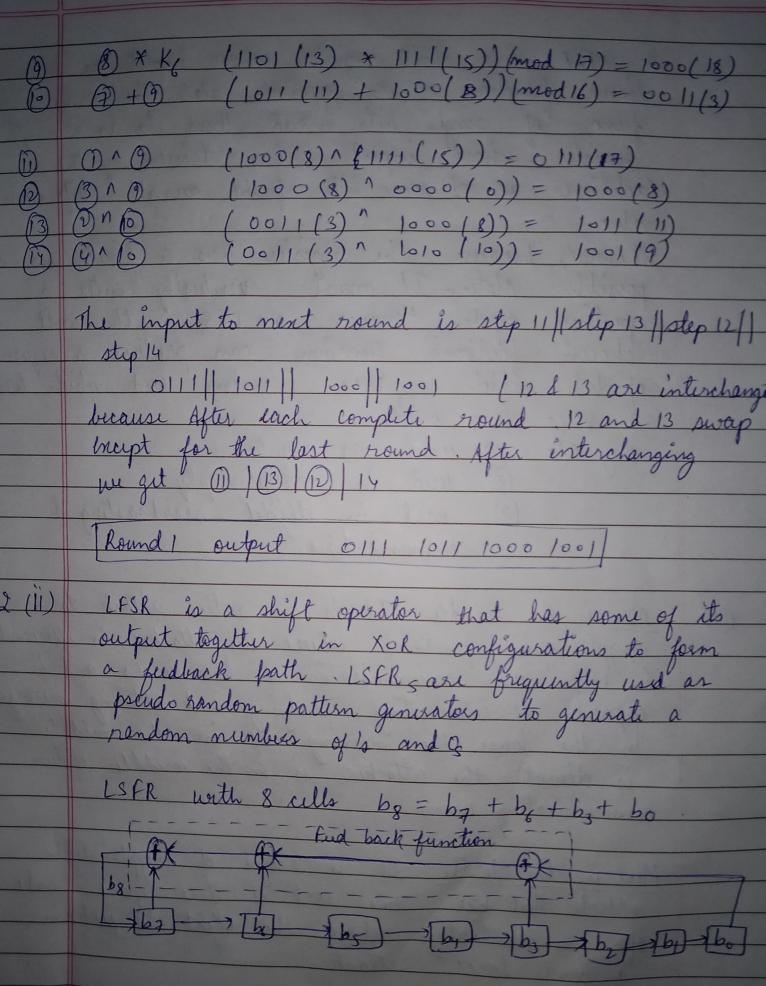
	Name: Snadha Kedia
	Date of Examination: 18 December, 2021
-	Time of Examination: 9:30 am to 1:30 pm
-	Examination Roll no : 20234757053
	semestre: III
	Unique Papue Code: 223401302
	Title of Paper: Information Security
	Email-Id: 200083@cs.du.ac.in
	Mobile no. of student: 200083 a.cs. du.ac.in 9899519848
	dustion no : 2
	No of pages: 4
	Name of the program: MCA
	Name of the Department: DUCS
	ALL SELLY
	ALL

Ans 2 (1)	I-bones are generally und to provide mon-lines
	in a modern block ciphers but IDEA cipher de
	DEA is an iterated block cial
	oftrales on using 8 rounds and 128 bit
	The algorithm employs ?
	operation XOK addition madella o'
	multiply multiplier their mounted
	arithmatic is used to achieve the required mon-
	(Court Confusion and diffusion)
	Plaintint 100/ 1/00 1010
	ky 1101 1100 0110 1111 0011 1111
	We have a 16 bit plain tent & 24 bit key which is
	divided into 4 & b blocks of 4 bit each
	$M_1 = 100$ $K_1 = 110$
	$M_2 = 1/00$ $K_2 = 1/00$ $K_3 = 10/0$ $K_3 = 10/0$
	$\mathcal{H}_{\mathbf{u}} = \mathbf{u}_{\mathbf{u}}$
	K5 = 0011
(1)	$K_{i} = 1111$ $X_{i} * K_{i} = 11001 190 * (1101) (120) i$
	$X_1 * K_1$ (1001 (9)* (1101) (13) (mod 17) = 1111(15)
3	X2 + K2 [1010 (10) + 1) [= 1000 (0)
9	X * X. (1100 (12) * 1,11) (100) = 0000(0)
0	$X_4 + X_4 = (1100(12) + (1111)(15)) (mod 16) = 0000(0)$ $0 \wedge (3) = (1111(15)^{1}) (1000)(0) = 1111(15)$ $0 \wedge (4) = (1000(8)^{1}) (1010)(10)$
(5)	01(1)
(6)	Q + V ((1111(15) * (0011)(15) = 6010(2)
(7)	(mod /2)
(3)	(6)+(7) (0010(2) + (1011)(11) Xmod 16) = 1011(11)
	(13)



A LESK is a shift register whose input bit is a linear function of its previous state. The only linear func. of single bits is XoR, thus its is a shift register whose input bit is driven by the exclusive or of some bits of the overall shift register value.

Exclusive or of some bits of the overall shift register value.

Likewise, because the register hors a finite mo of possible states. It must exertically enter a superating cycle. However, an LESK with will chosen feedback function can produce a required of bits which appears random and which has a very long cycle.

They are a used as counters.

(2) used in digital broad casting & communications.

Man in the middle - It is an active attack to a cryptographic protocol where the attacker is efficiently in blu the communication of two users and is capable of interespting orlying and altering message. In the case the meaning of in the middle is direct, the attacker is in the middle of two communicating users.

(111)

Meet in the Middle: It is a type of cryptanalytic attack that was some sort of time-space trade off to drastically reduce the effort to perform a brute-force attack.

The biggest difference between these attacks is that first one is interactive (i.e. attacker must participate in communication) while the second is not.

D While names are similar a MITM attack is very different from meet in the middle because MITM involves a malicious uses lavedropping or attering the conversion between 2 or more individual in carry Cut an attack. The attacker in this passes takes a position in the middle of an exchange while hiding or disfusting their activity so they can intercept and possible after data flowing