

I N D E X

NAME: Rose kamal love STD.: _____ SEC.: _____ ROLL NO.: _____ SUB.: Number theory.

S. No.	Date	Title	Page No.	Teacher's Sign / Remarks
1.)		Primality Test	1-3	
2.)		Prime factorisation		
3.)		Sieve of Eratosthenes		
4.)		Binary Exponentiation		
5.)		Euclid's Algo for GCD		
6.)		Gold Bach's Conjecture		
7.)		Finding Number of Divisors of N		
8.)		Calculation of Binomial Coeff.		
9.)		Segmented Sieve		
10.)		Intro to Modulo Inverse show to Calculate it.		
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		<u>Part 2:</u>		
1.)		Extended Euledian Algo.		
2.)		Linear Diophantine Eq ⁿ		
3.)		Matrix Exponentiation (A^n)		
4.)		Fibonacci in $O(\log n)$		
5.)		Chinese Remainder Theorem		
6.)		Euler Totient function		
7.)		Sum of Divisors		
8.)		Pollard p-1 method		
9.)		Pollard rho Algo		