Number Theory

Here is some blog for further reading

SOME LINK

Progkriya - http://www.progkriya.org/gyan/basic-number-theory.html

Forthright48 - https://forthright48.blogspot.com/p/cpps-101.html

Yarin's optimized sieve:
https://www.fmf.uni-lj.si/~lavric/Rosen%20-%20Elementary%20number%20theory%20and%20its%20applications.pdf

Bitwise Sieve:

Part One - http://zobayer.blogspot.com/2009/12/bitwise-operations-in-cc-part-1.html

Part Two - http://zobayer.blogspot.com/2009/12/bitwise-operations-in-c-part-2.html

Part Three - http://zobayer.blogspot.com/2009/12/bitwise-operations-in-c-part-3.html

Powerful tricks with calculation modulo:
https://www.hackerearth.com/practice/notes/powerful-tricks-with-calculation-modulo/

Prime factorization: http://www.lightoj.com/article_show.php?article=1002

NOD SOD -

http://www.lightoj.com/article_show.php?article=1003
Prime factorize()
sqrt(n) ----- http://www.lightoj.com/article_show.php?article=1002
log(n) ------ https://bit.ly/2nn9ZS9

Number of divisor() http://www.lightoj.com/article_show.php?article=1003
Sum of divisor()
Bid mod() https://www.youtube.com/watch?v=nO7_qu2kd1Q
Powerful tricks with calculation modulo --- https://bit.ly/2npas6h
Huge Mod - http://codeforces.com/contest/907/problem/F
http://codeforces.com/problemset/problem/17/D
Extended Euclid - https://cp-algorithms.com/algebra/extended-euclid-algorithm.html
Linear Diophantine Equation - https://cp-algorithms.com/algebra/linear-diophantine-equation.html
Euler Totient Function - https://en.wikipedia.org/wiki/Euler%27s_totient_function
Primality Test - https://en.wikipedia.org/wiki/Primality_test
10^{18} Prime Factorization ? / Num of Divisor - http://codeforces.com/blog/entry/22929
${}^{n}C_{r}$ for large numbers ? -
https://discuss.codechef.com/questions/3869/best-known-algos-for-calculating-ncr-m
https://www.spoj.com/problems/DCEPC13D/

Chinese Reminder Theorem - https://en.wikipedia.org/wiki/Chinese_remainder_theorem

Books :
Rosen Elementary Number Theory:
https://www.fmf.uni-lj.si/~lavric/Rosen%20-%20Elementary%20number%20theory%20and%20its%20applications.pdf

104 Number Theory Problems:
https://drive.google.com/file/d/13DQ3kXNPT0fXrnQnE6pyhcU49nVpTChg/view?usp=sharing