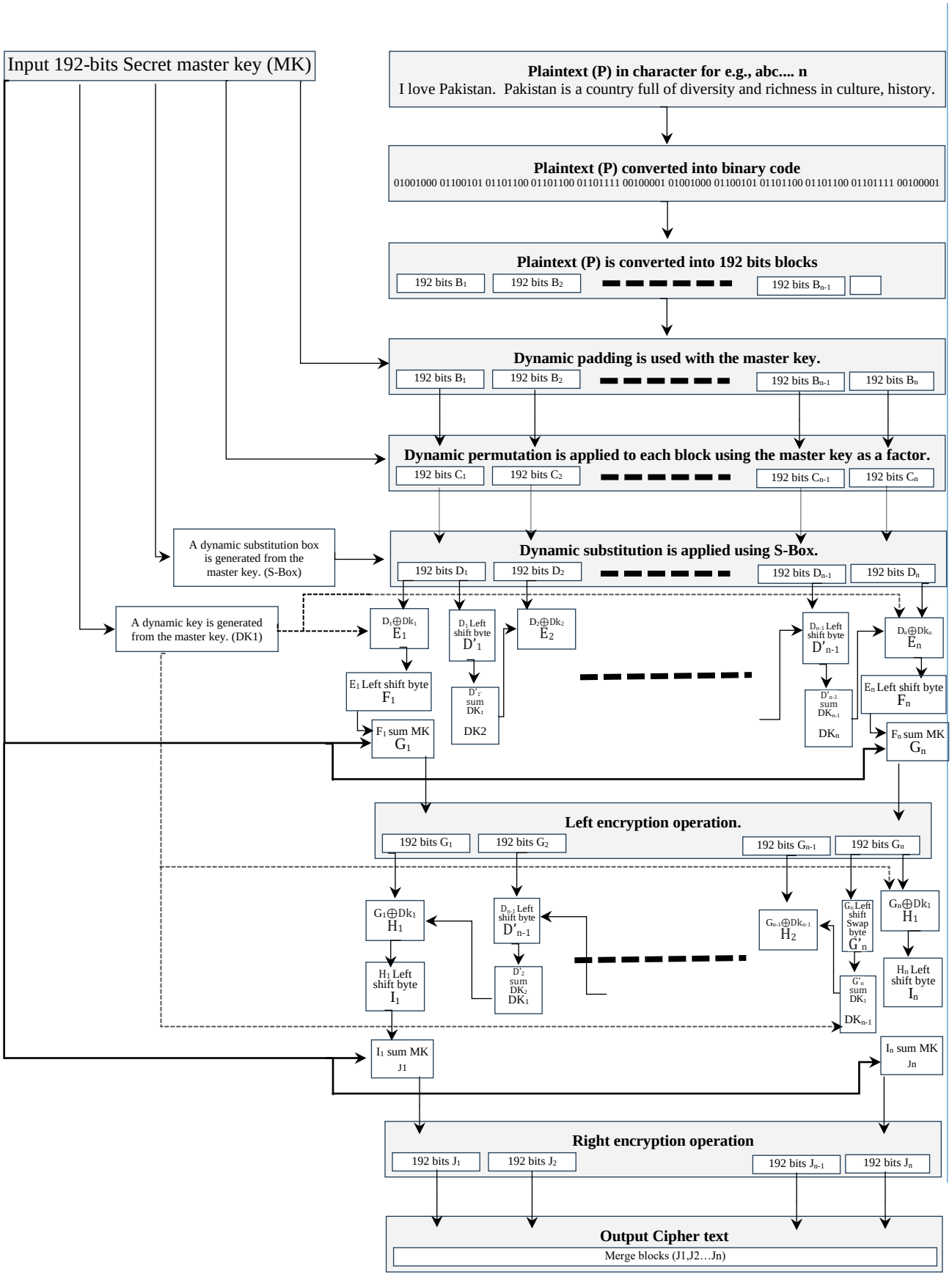
Input 192-bits Secret master key (MK)
Plaintext (P) in character for e.g., abc.... n
I love Pakistan. Pakistan is a country full of diversity and richness in culture, history.
Plaintext (P) converted into binary code
01001000 01100101 01101100 01101100 01101111 00100001 01001000 01100101 01101100 01101100 01101111 00100001
Plaintext (P) is converted into 192 bits blocks
192 bits B1
192 bits B2
192 bits Bn-1
Dynamic padding is used with the master key.
192 bits B1
192 bits B2
192 bits Bn-1
192 bits Bn
Dynamic permutation is applied to each block using the master key as a factor.
192 bits C1
192 bits C2
192 bits Cn-1
192 bits Cn
A dynamic substitution box is generated from the master key. (S-Box)
Dynamic substitution is applied using S-Box.
192 bits D1
192 bits D2
192 bits Dn-1
192 bits Dn
A dynamic key is generated from the master key. (DK1)
D1⊕Dk1 E1
D1 Left shift byte D'1
D2⊕Dk2 E2
Dn-1 Left shift byte D'n-1
Dn⊕Dkn En
E1 Left shift byte F1
D'1 sum DK1 DK2
D'n-1 sum DKn-1 DKn
En Left shift byte Fn
F1 sum MK G1
Fn sum MK Gn
Left encryption operation.
192 bits G1
192 bits G2
192 bits Gn-1
192 bits Gn
G1⊕Dk1 H1
Dn-1 Left shift byte D'n-1
Gn-1⊕Dkn-1 H2
Gn Left shift Swap byte G'n
Gn⊕Dk1 H1
H1 Left shift byte I1
D'2 sum DK2 DK1
G'n sum DK1 DKn-1
Hn Left shift byte In
I1 sum MK J1
In sum MK Jn
Right encryption operation
192 bits J1
192 bits J2
192 bits Jn-1
192 bits Jn
Output Cipher text
Merge blocks (J1,J2…Jn)