Q.12) DTU/2K16/MC/13

Assume a one time pad version of the Vigenère cipher. In this scheme, the key is a stream of random numbers between 0 to 26. For example, if the key is 3, 19, 5 then the first letter of plaintext is encrypted with a shift of 3 letters, the second with a shift of 19 letters, the third with a shift of 5 letters, and so on. Encrypt the plaintext "SENDMOREMONEY" with the key stream

9, 0, 1, 7, 23, 15, 21, 14, 11, 11, 2, 8, 9

P:	S	E	N	D	M	O	R	E	M	O	N	E	Y
P_i:	18	4	13	3	12	14	17	4	12	14	13	4	24
K_i:	9	0	1	7	23	15	21	14	11	11	2	8	9
$C_i = (P_i + K_i) \% 26$	1	4	14	10	9	3	12	18	23	25	15	12	7
C:	B	E	O	K	J	D	M	S	X	Z	P	M	H

Hence, the final ciphertext is:

BEOKJDMSXZPMH