### Assignment 2: Traditional Cryptography

Encrypt the following message using a Vigeniere cipher with direct standard alphabets. Key: JOSH.

All persons born or naturalized in the United States, and

subject to the jurisdiction thereof, are citizens of the

United States and of the state wherein they reside. No

state shall make or enforce any law which shall abridge

the privileges or immunities of citizens of the United

States; nor shall any state deprive any person of life,

liberty, or property, without due process of law; nor deny

to any person within its jurisdiction the equal protection

of the laws.

Upper case only! Turn plain and cipher text into 5 letter groups.

Calculate the index of coincidence of the plaintext and ciphertext.

Break the ciphertext into 4 columns.

What is the index of coincidence of each column?

ALLPE RSONS BORNO RNATU RALIZ EDINT HEUNI TEDST ATESA NDSUB JECTT

OTHEJ URISD ICTIO NTHER EOFAR ECITI ZENSO FTHEU NITED STATE SANDO

FTHES TATEW HEREI NTHEY RESID ENOST ATESH ALLMA KEORE NFORC EANYL

AWWHI CHSHA LLABR IDGET HEPRI VILEG ESORI MMUNI TIESO FCITI ZENSO

FTHEU NITED STATE SNORS HALLA NYSTA TEDEP RIVEA NYPER SONOF LIFEL

IBERT YORPR OPERT YWITH OUTDU EPROC ESSOF LAWNO RDENY TOANY PERSO

NWITH INITS JURIS DICTI ONTHE EQUAL PROTE CTION OFTHE LAWS