1.) What is Hill Cipher?

Ans.1) Hill cipher is a polygraphic substitution cipher based on linear algebra.

2.) What are advantages of Hill Cipher?

Ans.2) Advantages of Hill Cipher
1. disguising letter frequencies of the plaintext
2. Simplicity because of using basic matrix operations,
3. High speed, high throughput

3.) What is disadvantage of Hill Cipher?

And.3) Disadvantage of Hill Cipher
1. Takes smaller sizes of blocks,
2. Very simple and vulnerable for exhaustive key search attack and known plain text attack,
3. The key matrix which entered should be invertible.