1- My friend is the manager.

2- John is a student.

Reference is the relation between a linguistic sign and the external world on a certain occasion.
Sense is the relation inside a language, it has nothing to do with the world.

Reference belongs to an expression not to a single word. **Sense** can be associated with a single word and is not confined nouns as is reference.

Sad , antagonize are said to have sense

sense:

synonymy

opposition

hyponym

Synonymy is defined in terms of the sameness of sense;

quick/fast
pretty/beautiful
begin/start

Opposition is based on contrast.

Dead/alive   small/big
There are number of subclasses:
graded opposites
ungraded opposites

Hyponym is based on inclusion.
Flower to rose, pansy and daffodil

The descriptive meaning of a sentence is determined by its reference and sense. For translation this means that both reference and sense should be preserved in the process of rendering one text into another.

Layla is a nurse

ليلى ممرضة

Denotation is the definition found in a dictionary; it defines the class rather than any individual.

Connotation is the shade of meaning acquired by a word in addition to its denotation.

Lion / strength ,bravery, nobleness

Connotation is often culture-specific and is the most difficult part of meaning to translate.

Two words in two languages may have the same denotation but a different connotation.

owl/   بوم