VQI) How do we specify preferences?
- Preference lists
VQZ) Ratio of applicants Vs. Employers/men vs. - lil h Employers/women
faz) Define assignment?
(Q4) Can an employer have \$\overline{A} > 1 employee?
VQ5) Can an employee have more than I employer? -no (no polygamy)
Va6) How many employees/employers per preference list? All of them (n)
SQ7) Does every employer have 21 employee?
VQ8) Does every employed have 21 employer? -yes

An assignment is a matching which is a set $S \subseteq M \times W$ where $M = \{m_1, m_2, \dots, m_n\}$ is the set of men $W = \{w_1, w_2, \dots, w_n\}$ is the set of woman and $\forall m \in M \ni \subseteq 1 \text{ we } W \text{ s.t. } (m, w) \in S$ and $\forall w \in W \ni \subseteq 1 \text{ m } \in M \text{ s.t. } (m, w) \in S$

ex 12

Define Perfect matching is is a matching and 151=h

Then S is a perfect matching Everyone has exactly I spouse

Define Stable matching: is a perfect matching with no in stabilities,

Define instability: # Ad ton Jon, was St. in prefers wover his current spouse AND in prefers in over her current spouse.