| Botany 401 | Name: | | |
|-----------------------------|-------|--|--|
| Vascular Flora of Wisconsin | | | |
| Exam 1 – take home portion | | | |

[20 points out of 90 total; each question is 5 points] – due in lecture Tues March 13

1. Use the online key to ferns and relatives at UW-Green Bay to key this fern to species. These fronds (feature "a") are about 3 feet long. Sporangia (feature "b") are located in the darker tan areas.

species ____



2. Using resources you have learned about in lecture and laboratory, find 2 synonyms of the following species – *Aster modestus* Lindl. – sticky aster. Give the complete **scientific name** for both in correct format.

Give one likely reason (of several) how such synonyms have arisen:

3. Using the Wisconsin State Herbarium Wisflora (http://www.botany.wisc.edu/cgi-bin/GenusList.cgi) and USDA Plants Database (http://plants.usda.gov/java/) websites, examine the distribution maps of the listed species below for more detailed distributions, give a common name for each, and answer the following questions:

| | | common name | e |
|---|---|---|---|
| a. | Baptisia alba | | |
| b. | Gleditsia triacanthos | | |
| c. | Moneses uniflora | | |
| d. | Chamaesyce polygonifolia | | |
| | e species that basically honors the Wisconthern Hardwood Province. | onsin Tension Zo | one by being confined to the |
| The | e species that is confined to Great Lakes | ' sandy lakeshore | es. |
| The | e species that is derived from the western | n "prairie elemen | nt". |
| | e species that is derived from central No parian" habitats. | rth America but | primarily restricted to |
| Ranunculad raspberry, a these three | The important families you learned from ceae (buttercup family), Rosaceae subfa agrimony, cinquefoil), and the Fabaceae families using only vegetative or flora mber, hypanthium +/-, pistil number, fru | mily Rosoideae ((legume family) l features from | (rose subfamily including). Make a dichotomous key to |
| A. | | |] |
| A. | | |] |
| | В. | |] |
| | В. | | 1 |