|  |  |  |
| --- | --- | --- |
| **SUBSTANTIAL MODULE 4.**  **MICROSCOPICAL DESCRIPTIONS:** | | |
| **Topic: ALKALOIDS.** | | |
| **BELLADONNA LEAF** – ***BELLADONNAE FOLIА*** | | |
| красавка-лист-микро | Anatomical features of belladonna leaf:  1 – upper epidermal cells;  2 – lower epidermal cells;  3 – stomata;  4 – glandular hairs with small pedicel and a large multicellular head; | |
| 5 – glandular hairs with long pedicel and unicellular head;  6 – simple hairs;  7 – oval idioblasts filled with calcium oxalate sand. | | |
| **STRAMONIUM LEAF – *STRAMONII FOLIА*** | | |
| дурман-микро | | Anatomical features of stramonium leaf:  1 – upper epidermal cells;  2 – lower epidermal cells;  3 – stomata;  4 – simple hairs;  5 – glandular hairs with small pedicel and a large multicellular head;  6 – druses of calcium oxalate. |

|  |  |
| --- | --- |
| **HENBANE LEAF – *HYOSCYAMI FOLIА*** | |
| белена-микро | Anatomical features of henbane leaf:  1 – upper epidermal cells;  2 – lower epidermal cells;  3 – stomata;  4 – simple hairs;  5 – glandular hairs; 6 – prismatic crystals of calcium oxalate. |
| **BUSH PEA LEAF** (**THERMOPSIS LEAF**)– ***THERMOPSIDIS HERBA*** | |
| термопсис-лист | Anatomical features of bush pea (thermopsis) leaf:  1 – lower epidermal cells;  2 – upper epidermal cells;  3 – stomata;  4 – simple hairs;  5 – rosette at the base of a hair;  6 – spheric crystals of phenolic glycoside |
| **CELANDINE HERB – *CHELIDONII HERBA*** | |
| чистотел-микро | Anatomical features of celandine herb:  1-upper epidermal cells;  2 – lower epidermal cells;  3 – stomata;  4 – simple hair;  5 – spongeous parenchymal cells with large intercellular ducts (aerenchyma);  6 – veins with lactifers filled with yellow contents. |