

## Medicinal Plants

### Multiple Choice:

- |                   |                             |                |
|-------------------|-----------------------------|----------------|
| a) Aloe vera      | e) Ginkgo                   | i) Snakeroot   |
| b) Feverbark tree | f) ginseng                  | j) Willow      |
| c) Foxglove       | g) Madagascar<br>Periwinkle | k) Pacific Yew |
| d) Happy tree     | h) Pacific Yew              |                |

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|--|---|
| 1. _____ acetosalicylic acid                               | 22. _____ Jesuit powder or bark   |
| 2. _____ aloin   | 23. _____ lowers blood pressure   |
| 3. _____ analgesic   | 24. _____ malaria treatment   |
| 4. _____ anthraquinones                                    | 25. _____ methylsalicylate  |
| 5. _____ antipyretic                                       | 26. _____ Plasmodium  |
| 6. _____ aspirin   | 27. _____ purgative   |
| 7. _____ burn treatment                                    | 28. _____ quinine   |
| 8. _____ camptothecin                                      | 29. _____ reduces risk of heart attack<br>& stroke                                |
| 9. _____ chloroquine                                       | 30. _____ reserpine   |
| 10. _____ chemical used in plant to<br>plant communication | 31. _____ Rig-Veda  |
| 11. _____ cure for dropsy                                  | 32. _____ salicin   |
| 12. _____ digitalis  | 33. _____ treatment for advanced<br>cancer  |
| 13. _____ digoxin, digitonin                               | 34. _____ treatment for breast cancer   |
| 14. _____ extinct – over-collected for<br>medicine         | 35. _____ treatment for depression  |
| 15. _____ Felix Hoffman & Bayer Co.                        | 36. _____ treatment for gout  |
| 16. _____ gin & tonic                                      | 37. _____ treatment for hypertension  |
| 17. _____ Hindu healers used                               | 38. _____ treatment for leukemia &<br>Hodgkin's disease                           |
| 18. _____ increases blood flow to<br>brain                 | 39. _____ treatment for<br>schizophrenia  |
| 19. _____ Indian healers                                   | 40. _____ treatment for senility  |
| 20. _____ inhibits platelet<br>aggregation                 | 41. _____ vincristine/vinblastine   |
| 21. _____ inhibits DNA repair, very<br>toxic               | 42. _____ William Withering   |
|  | 43. _____ Wintergreen & sweet birch<br>contain similar chemicals to this<br>plant |

**Essay Question on Exam #3:** Select one plant-derived medicine such as quinine, reserpine, aspirin or digitalis and prepare an essay describing the type of secondary metabolite it is, its basic chemical structure, its actions in the body, the effectiveness of the medicine, the plant from which it was derived, the country of origin of the plant, a brief history of the use and discovery of the plant/medicine

**Mapping Question:** For each of the plants listed in the Matching Question above, write its name on the map in the general region to which it is native (or generally associated).

