

FACULTY OF PHARMACY

B. Pharmacy V Semester (PCI) (Main) Examination, January 2020

Subject: Pharmacognosy and Phytochemistry-II

Time: 3 hours

Max. Marks: 75

Note: Answer all questions from part-A. Any two questions from part-B and any seven questions from part-C

PART – A (10 x 2 = 20 Marks)

1. Draw structure and write uses of
a) Quinine (b) Alion.
2. Write one chemical test each for detection of anthraquinone and cardiac glycosides.
3. Write applications of gas chromatography.
4. Write biological source, active constituents and uses of colophony.
5. Write commercial applications of Podophyllotoxin and artemisinin.
6. Write the applications of electrophoresis.
7. Write the applications of TLC.
8. What are the uses of artemisin or digoxin?
9. Mention any four crude drugs containing glycosides.
10. What are the active constituents in (i) Clove (ii) Cinnamon and their uses?

PART – B (2 x 10 = 20 Marks)

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| 11. a) Write a note on chemistry of sennosides. | 4 |
| b) Write procedures for isolation and estimation of caffeine. | 6 |
| 12. Discuss about shikimic acid pathway. | 10 |
| 13. Write procedures for industrial production of any one natural product drug. | 10 |

PART – C (7 X 5 = 35 Marks)

14. Write source and uses of benzoin, cinnamon and asafetida.
15. Write a note on Supercritical fluid extraction.
16. Discuss chemistry of digitalis glycosides.
17. Write about the principle and procedure and applications of TLC.
18. Draw structure and write procedure for isolation of curcumin.
19. Write about chemistry and uses of opium alkaloids.
20. Write the sources and procedures for the isolation of Atropine.
21. Mention two alkaloids containing crude drugs, write their active constituents and uses.
22. Write source, chemical constituents and uses of a) liquorice b) Catechew.