

**B. Sc. DEGREE END SEMESTER EXAMINATION MARCH 2019****SEMESTER – 6: BOTANY (CORE COURSE)****COURSE: 15U6CRBOT13EL: PHYTOCHEMISTRY & PHARMACOGNOSY***(Common For Regular - 2016 Admission / Supplementary-Improvement 2015 admissions)*

Time: Three Hours

Max. Marks: 75

**Part A**I. Answer **ALL** questions; each question carries ONE mark.

1. What is meant by organoleptic identification?
2. Name the plant which yields peppermint oil.
3. What is ethnopharmacology?
4. Give the biological source of opium.
5. What are triterpenoids?
6. Which is the most common method for the separation of volatile compounds?
7. What is cleverger apparatus?
8. Name any two solvents used for extraction of alkaloids.
9. What is the principle of GC?
10. Name the alkaloid in *Adathoda Vasika*. (1 x 10 = 10)

**Part B**II. Answer **any eight** questions; each question carries TWO marks.

11. What is meant by drug adulteration?
12. Differentiate between starch grains of wheat and potato?
13. Give source and constituents of lemongrass oil
14. What is the principle of UV spectroscopy
15. Name two plants belong to Lamiaceae which yield volatile oil.
16. What are the pharmacological uses of *Tinospora cordifolia*
17. Name two drugs discovered by ethnopharmacological approach.
18. List out advantages of petroleum ether as a solvent.
19. What is hot extraction?
20. Give the morphology of useful parts a) *Asparagus* b) *Aegle marmelos* (2 x 8 = 16)

**Part C**III. Answer **any five** questions; each question carries five marks.

21. Write a note on the classification of alkaloids
22. Give pharmacological uses of *Aloe vera* with a note on its systematic position

23. Explain TLC
24. Write a note on plant phenolics?
25. Name any two medicinally important alkaloids and their source plants.
26. Give the systematic position and pharmacological uses of *Punica granatum*.
27. Describe the principle of IR spectroscopy. (5 x 5 = 25)

**Part D**

IV. Answer ANY TWO questions; each question carries TWELVE marks.

28. Describe various organoleptic method with suitable example used for evaluation of drugs.

OR

29. Describe the principle and application of HPLC.

30. Give an account on the extraction of Eucalyptus oil. Add a note on its properties

OR

31. Describe the phytochemistry and pharmacological uses of *Adhatoda* and *Azadirachta*.

(12 x 2 = 24)

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