

BSc DEGREE END SEMESTER EXAMINATION MARCH 2017
SEMESTER - 6: BOTANY (OPEN CORE)
COURSE: U6ORBOT13: PHYTOCHEMISTRY AND PHARMACOGNOSY
(For Regular - 2014 Admission)

Time: Three Hours

Max. Marks: 75

PART A

Answer **all** questions. Each question carries 1 mark.

1. What is meant by palisade ratio?
2. Write the binomial and family of Neem.
3. What is meant by eccentric starch grain?
4. Expand NPK
5. Name the alkaloids in *Adhatoda vasica*
6. What is meant by diuretic?
7. Which is the officinal part of *Hemidesmus indicus*?
8. Which plant is known as Aswagandha?
9. Why methanol is called a super solvent?
10. Name the plant which produce the phtochemical 'morphine'

(1 x 10 = 10)

PART B

Answer **any eight** questions. Each question carries 2 marks.

11. What is meant by supercritical fluid extraction?
12. Give an account on green manure
13. Enlist any two medicinal properties of *Plumbago rosea*
14. Write note on stomatal index
15. Explain softwood stem cutting
16. Give an account on the uses of clove
17. Name any two chemical properties of soil
18. What are triterpenoids?
19. Name any two chemical fertilizers
20. What is the use of HPTLC?

(2 x 8 = 16)

PART C

Answer **any five** questions. Each question carries five marks.

21. Give an account on biological control of pests.
22. Describe the medicinal properties of alkaloids.
23. Give an account on the phytochemistry and pharmacological action of *Papaver somniferum*.
24. Give an account on the role of soil microbes.
25. Explain vermicomposting.

26. Give an account on any four vegetative methods of plant propagation.
27. What is the principle of IR Spectroscopy?

(5 x 5 = 25)

PART D

Answer **any two** questions. Each question carries 12 marks.

28. Describe the various methods of drug adulteration and the physical evaluation of drugs

29. Write an essay on the different types of hydro distillation and add a note on the advantages and disadvantages of each.

30. Describe the biological functions, and classification of alkaloids.

31. Give an account on the Chemical and Biological methods of plant protection.

(12 x 2 = 24)
