TB146110A   Reg. No……………………….

                                              Name…………………….....

B. Sc. DEGREE (C.B.C.S.S.) EXAMINATION, MARCH 2017
SEMESTER VI - BOTANY
BOT6PP - PHYTOCHEMISTRY AND PHARMACOGNOSY

Time: Three Hours   **Maximum Marks: 80**

PART A

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

1.   What is meant by organoleptic evaluation?
2.   Name any one solvent used for phytochemical extraction.
3.   Give an example of an alkaloid.
4.   What is the pharmacological function of alkaloids?
5.   What are quinines?
6.   Give the binomial of Indian sarasaparilla
7.   Which is the family of *Santalum album*?
8.   Expand NPK.
9.   Define palisade ratio.
10. What is meant by approach grafting?

                                              (10 x 1 = 10)

PART B

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

11. Explain the process of TLC.
12. Give an account of cold extraction.
13. Give an account on the phytochemistry of *Aegele marmelos.*
14. Mention the habit, systematic position and morphology of the useful part of *Withania Somnifera.*
15. Explain the medicinal properties of Cinnamon.
16. What are components of sandal wood oil?
17. Give an account on the medicinal properties of Eucalyptus oil.
18. Give an account on the medicinal species of Rose.
19. Explain soil fertility.
20. Write note on soil organisms.
21. Explain ash value.
22. What is meant by bioassay?

                                              (8 x 2 = 16)

PART C

III.   Answer any six questions. Each question carries 4 marks.

23. Explain the hot extraction using Soxhlet apparatus.
24. Give an account on the characterization of drugs using IR Spectra.
25. Write note on the properties and occurrence of alkaloids in plants.

26. Write note on the classification of alkaloids.
27. Give an account on the habit, habitat, systematic position and morphology of the useful part of *Kampferia galangal.*
28. Explain the habit, systematic position and phytochemistry of *Datura stramonium.*
29. Write note on drug adulteration.
30. Give an account on the physical properties of soil.
31. With the help of diagram, explain the features of the starch grains of Curcuma.

(6 x 4 = 24)

PART D

IV.   Answer any two questions. Each question carries 15 marks.

32. Write an essay on the common methods of propagation used for medicinal plants.
33. Give an account on the properties, occurrence, functions and pharmacological uses of Triterpenoids.
34. Write an essay on the habit, habitat, systematic position and morphology of the useful part of *Papaver somniferum, Plumbago rosea, Aloe vera, Tylophora indica* and *Punica granatum.*
35. Write an essay on the microscopic, chemical and physical evaluation of drugs.

(2 x 15 = 30)