

Q.P. Code : 502000

(2 Hours)

[Total Marks :40

N.B. : (1) Question No. 1 is Compulsory.(2) Attempt **any four** questions from question Nos. 2 to 7.

(3) Answers to the subquestions to be written together.

1. (a) Differentiate between cardenolides & bufadienolides. Describe any one drug containing cardenolides. 5
(b) Give biological source, chemical constituents with structure of the following (any two) 3
(i) Guggul (ii) Asparagus (iii) Fennel
2. (a) Give biosynthetic pathway for Monoterpenoids. 5
(b) Describe biological source, method of preparation and chemical tests for colophony. 3
3. (a) Describe in detail pharmacognosy of clove **OR** Cinnamon. 5
(b) Write biological source, chemical constituents with structure of Artemisia and Sandal wood. 3
4. (a) Classify saponins and describe in detail Licorice. 5
(b) Write in brief about phytotoxins of abrus and aconite. 3
5. (a) Write short notes on- 5
(i) Andrographis
(ii) Phyllanthus
(b) Write source, preparation, chemical tests and constituents of Asafoetida **OR** Cannabis. 3
6. (a) Give pharmacognostic account of Picrorrhiza **OR** Coriander. 5
(b) Write biological source, chemical constituents with structure of - 3
(i) Dioscorea (ii) Lemongrass
7. (a) Describe phytochemical evaluation of Herbal Extracts. 5
(b) Enlist various methods of extraction of volatile oil and describe any one method. 3