

GUJARAT TECHNOLOGICAL UNIVERSITY
B.Pharm – Semester IV – Examination – SUMMER 2017

Subject code: 240006

Date: 11/05/2017

Subject Name: Pharmacognosy-III

Time: 02:30 PM to 05:30 PM

Total Marks: 80

Instructions:

- 1. Attempt any five questions.**
- 2. Make suitable assumptions wherever necessary.**
- 3. Figures to the right indicate full marks.**

- Q.1 (a) Describe the chemistry of anthraquinone glycoside. (06)
(b) Describe the morphological characters of Indian Senna pod. (05)
(c) Explain the pharmacological action of rhubarb. (05)
- Q.2. (a) Describe the allied drugs of Digitalis leaf. (06)
(b) Describe with suitable diagram the microscopical character of Chirata. (05)
(c) Write short notes on a bitter wood. (05)
- Q.3. (a) Describe cultivation and collection of Liquorice root. (06)
(b) Write the biological source and chemical constituents of an Immunomodulatory root drug. (05)
(c) Write a note on saponin glycoside. (05)
- Q4. (a) Write the botanical source, constituents and uses of Gentian root. (06)
(b) Name the chemical constituents which cause griping effect of senna and draw its structure. Add a note how to overcome the griping effect. (05)
(c) Comment on the following: (05)
1. Digitalis leaf packed with dehydrating agent
2. Peruvidoside superior over digoxin
- Q5. (a) Draw the chemical structure of any three of the following: (06)
(1) Scillaren A, (2) Diosgenin, (3) Visnagin, (4) Sennoside A
(b) Describe in detail about Bitter almond. (05)
(c) Write the chemical test of unorganized drug used as purgative. (05)
- Q6. (a) What are enzymes? Describe the method of preparation any one enzyme having proteolytic activity. (06)
(b) Write the description, solubility and properties of Pancreatin. (05)
(c) Write a note on enzyme obtained from plant source. (05)
- Q7. (a) Describe the pharmacognosy of Bavchi. (06)
(b) Write a note on drug used as hepatoprotective. (05)
(c) Write the B.S, C.C and uses of Sarasaparilla. (05)
