

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY
B.PHARM - SEMESTER- 4 EXAMINATION – SUMMER -2019**Subject Code: 240006****Date: 20-05-2019****Subject Name: Pharmacognosy - III****Time: 10:30 AM TO 01:30 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) Define Glycosides. Write in detail about classification of Glycosides. **06**
(b) Write in detail about general method for isolation of Glycosides. **05**
(c) Write various properties of Glycosides. **05**
- Q.2** (a) What is Saponins? Write properties of saponins. Enlist various saponin glycosides containing drugs. **06**
(b) Write a short note on Jethimadh mentioning its medicinal importance. **05**
(c) Give botanical source, family, chemical constituents and uses of Quillaia bark. **05**
- Q.3** (a) Write a comparative study between Cardenolide and Bufadienolide. **06**
(b) Write chemistry of various Digitalis glycosides. **05**
(c) Write morphology of Strophanthus. **05**
- Q.4** (a) Mention about various variety of Aloe depending upon its geographical source. **06**
(b) Write a difference between Indian Senna and Alexandrian Senna. **05**
(c) Give botanical source, chemical constituents and uses of Rhubarb. **05**
- Q.5** (a) Write a short note on Bitter Glycosides. **06**
(b) Describe microscopical study of Andrographis paniculata. **05**
(c) Draw microscopy of Quassia wood. **05**
- Q. 6** (a) Define cyanogenetic glycoside. Draw morphology of Linseed. **06**
(b) What is Isothiocyanate glycoside. Write in brief about Black mustard. **05**
(c) Write a short note on Flanonoids mentioning Ruta graveolens. **05**
- Q.7** (a) Define Enzyme. Write various properties of Enzymes. **06**
(b) Write source and uses of Diastase. **05**
(c) Write a short note on Pancreatine. **05**
