

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY
B.Pharm – SEMESTER V– • EXAMINATION – SUMMER-2021

Subject Code: BP501TT

Date: 03/08/2021

Subject Name: Medicinal Chemistry II

Time: 02:30PM to 05:30PM

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) What are anti-histaminic? Classify H₁-antagonist in detail. 06
(b) Write a short note on proton pump inhibitors. 05
(c) Outline the synthesis of a) Diphenyl hydramine b) Cemetidine 05
- Q.2** (a) What are antineoplastic agents? Explain alkylating agent in detail. 06
(b) Write a note on antimetabolites. 05
(c) Give structure, uses and synthesis of methotrexate. 05
- Q.3** (a) Classify antihypertensive agents. Give at least one structure from each class. 06
(b) Write a short note on anti-anginal agents. 05
(c) What are diuretics? Explain in detail about loop diuretics. 05
- Q.4** (a) Classify anti-arrhythmic agents. Give synthesis of disopyramide phosphate. 06
(b) Write a note on anti-hyperlipidemic agents. 05
(c) Explain the chemistry of cardiotonic. 05
- Q.5** (a) Explain in detail about nomenclature and stereochemistry of steroids. 06
(b) Write a short note on drug used for erectile dysfunction. 05
(c) Explain about anti-thyroid agents. 05
- Q. 6** (a) What is type II diabetes? Classify anti-diabetic agents in detail. 06
(b) Explain the SAR of local anesthetics. 05
(c) Outline the synthesis of a) tolbutamide b) benzocaine. 05
- Q.7** (a) Explain briefly coagulant and anti-coagulant agents. 06
(b) Write a note on ACE inhibitors. 05
(c) Write a note on H₂ receptor antagonist. 05
