

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

Subject Code:2280004**Date:09/08/2021****Subject Name: Pharmacology and Pharmacotherapeutics-IV****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) Classify Thyroid inhibitors. Explain the mechanism of action, uses and adverse effects of propylthiouracil. **06**
(b) Write pathophysiology, diagnosis and treatment of bone disorders. **05**
(c) Write etiology, pathophysiology and signs and symptoms of cardiac arrhythmias. **05**
- Q.2** (a) Classify anticoagulants. Explain the mechanism of action, uses and adverse effects of warfarin. Add a note on low molecular weight heparins. **06**
(b) Explain pharmacological actions, adverse effects and uses of Nitrates. **05**
(c) Write a note on management of diabetic ketoacidosis. **05**
- Q.3** (a) Classify diuretics. Write a short note on Thiazide diuretics. **06**
(b) Describe the mechanism of action and adverse effects of angiotensin converting enzyme (ACE) Inhibitors. **05**
(c) Describe the sign and symptoms and management of iron deficiency anemia. **05**
- Q.4** (a) Define Thrombosis. Write down sign-symptoms, pathophysiology and treatment of Thrombosis. **06**
(b) Describe the mechanism of action, adverse effects and contraindications of the combined pill. **05**
(c) Discuss risk factor, complication, diagnosis and treatment of Obesity. **05**
- Q.5** (a) Classify anti-androgens. Write about mechanism of actions and medicinal uses of anti-androgens **06**
(b) Describe the Mechanism of action and adverse effects of Sulfonylurea. **05**
(c) Write note on HMG CoA reeducates inhibitors. **05**
- Q. 6** (a) Classify Insulin preparations. Describe the mechanism of action and adverse effects of insulin. **06**
(b) Discuss briefly the mechanism of action, side effects and uses of Glibenclamide. **05**
(c) Describe the mechanism of action, adverse effects and therapeutic uses of digoxin. **05**
- Q.7** (a) Classify Calcium Channel Blockers. Mention the mechanism of action and uses of Verapamil. **06**
(b) Describe the Management of hypertensive emergencies. **05**
(c) Explain the pharmacology of radioactive iodine **05**
