

C.U.SHAH UNIVERSITY

Summer Examination-2022

Subject Name : Medicinal Chemistry II - Theory

Subject Code : BP501T

Branch: B.Pharm

Semester: 5

Date: 21/04/2022

Time: 11:00 To 02:00

Marks: 75

Instructions:

- (1) Use of Programmable calculator & any other electronic instrument is prohibited.
- (2) Instructions written on main answer book are strictly to be obeyed.
- (3) Draw neat diagrams and figures (if necessary) at right places.
- (4) Assume suitable data if needed.

Q-1 Attempt the following questions: (20)

- a) Why digoxin is used in CHF? (Congestive Heart Failure)
- b) Mechanism of Osmotic Diuretic
- c) Give the structure and uses of Testosterone and Progesterones
- d) Define: Vasodilators by giving examples
- e) What are steroids? Classify them.
- f) Synthesis of Warfarin.
- g) ACE inhibitors as Antihypertensive Agents.
- h) Define and classify Anti-diabetic agents.
- i) Short note on: Histamine receptors
- j) Differentiate H1 and H2 Antagonist.

Attempt the following questions:

Q-2 Attempt any two of following : (2*10 Marks = 20 Marks) (20)

- A Explain SAR of Local anesthetics, Give Classification and MOA. **10**
- B Explain Antineoplastic agents with Classification and MOA. Give synthesis and uses of Mechlorethamine and Mercaptopurine **10**
- C Define Diuretics, give Classification and MOA. Give synthesis and uses of Acetazolamide and Chlorthiazide. **10**

Q-3 Attempt any Seven of following : (7*5 Marks = 35 Marks) (35)

- A Write a detail note on Proton Pump inhibitors. **5**
- B Short note on: Thiazide Diuretics. **5**
- C Give structure and uses of L-thyroxine, cortisone, procainamide HCl, captopril. **5**
- D Classify Diuretics; write method of preparation of Furosemide **5**
- E Write about Insulin and its preparation in brief. **5**
- F Explain different plant products as Anti-neoplastic Agents. **5**
- G Write down the reaction and uses for Diphenhydramine HCl and Promethazine HCl. **5**
- H Define: Coagulants and Anticoagulants by giving proper examples.. Explain detail mechanism, of blood coagulation. **5**
- I Classify H1 receptor antagonist, with example in each category.(with structure) **5**

