

# C.U.SHAH UNIVERSITY

## Winter Examination-2022

Subject Name : Medicinal Chemistry I - Theory

Subject Code : BP402T

Branch: B.Pharm

Semester: 4

Date: 20/09/2022

Time: 02:30 To 05:30

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)**

- Define Optical isomerism with example
- Explain & classify Adrenoceptors
- Define antipsychotic agents with suitable examples
- What are CNS depressants
- Write synthesis of Lignocaine
- Synthesis of Phenytoin
- Synthesis of Propranolol
- Synthesis of Barbital
- Synthesis of Ibuprofen
- Synthesis of Salbutamol

**Attempt the following questions:**

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

- A** Define and classify Antianginal agents with the synthesis of Isosorbide dinitrate. **10**
- B** Define opioid drugs. SAR of Morphine analogues. Give the synthesis of Methadone HCL **10**
- C** Define Sedative and hypnotics **10**

**Q-3 Attempt any Seven of following : (35)**

- A** Classify Anti hypertensive agent **5**
- B** Give SAR of Parasympathomimetics **5**
- C** SAR of Calcium Channel blocker. **5**
- D** Write about effect of hydrogen bonding and stereoisomerism on biological activity. **5**
- E** Define and classify cholinergic agents. What are cholinesterase inhibitors? How do they act? Give examples. **5**
- F** What is Anaesthesia? Write note on General Anaesthetic agents. **5**
- G** Define and classify antiepileptic drugs. Discuss SAR of Benzodiazepines **5**
- H** What is schizophrenia? Explain SAR of Phenothiazine derivatives as CNS depressants. **5**
- I** Write a detail note on Antiparkinson's agents. **5**

