

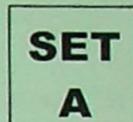
REV-01  
BPH/92/31/36

**B. PHARM.  
FOURTH SEMESTER  
MEDICINAL CHEMISTRY-I  
BP402T**

[USE OMR SHEET FOR OBJECTIVE PART]

**Duration:** 3 hrs.

2024/05



Full Marks: 75

**Time: 30 min.**

**Marks: 20**

**Choose the correct answer from the following:**

$$1 \times 20 = 20$$

- Which one of the following is triazoloderivatives  
a. Barbital b. Alprazolam  
c. Diazepam d. Glutethimide
  - Which one of the following antipsychotics is a fluoro buterophenone derivatives  
a. Sulpiride b. Haloperidol  
c. Loxapine succinate d. Molindone hydrochloride
  - Which one of the following is act as a dissociative anesthetics  
a. Halothane b. Methohexitol sodium  
c. Ketamine hydrochloride d. Isoflurane
  - Which one of the following is act as a Inhalation anesthetics  
a. Halothane b. Methohexitol sodium  
c. Ketamine hydrochloride d. None of these
  - Which one of the following is act as a anticonvulsant drug  
a. Phenytoin b. Sulpiride  
c. Molindone hydrochloride d. Alprazolam
  - Which one of the following is act as a selective COX-II inhibitor  
a. Celecoxib b. Rofecoxib  
c. Valdecoxib d. All of these
  - Which hetero atoms are present in phenothiazines structure  
a. O & N b. O & S  
c. N & P d. S & N
  - Which one of the following phenothiazines consists of Ethyl piperidyl side chain  
a. Promazine b. Prochlorperazine  
c. Thioridazine d. Trifluperazine
  - Which one of the following phenothiazines consists propyl piperazine ring.  
a. Thioridazine b. Promazine  
c. Prochlorperazine d. Chlorpromazine



**( PART-B :Descriptive )**

Time : 2 hrs. 30 min.

Marks : 35

*[Answer any seven (7) questions]*

1. Write the SAR of Phenothiazine derivatives. 5
2. Write the synthesis of Ibuprofen? 5
3. Write the SAR of benzodiazepines. 5
4. Write the synthesis of Halothane and Methohexitol sodium. 3+2=5
5. Write the SAR of barbiturates. 5
6. Write the synthesis of Phenylephrine and Salbutamol. 2+3=5
7. Write the SAR of morphine analogue. 5
8. Write the synthesis of Ketamine hydrochloride. 5
9. Write the synthesis of Propranolol and Tolazoline. 3+2=5

--- --- --

**PART-C: Long type questions**  
[Answer any two (2) questions]

1. Write the synthesis of (*any two*) 10
  - a. Carbamazepine
  - b. Phenytoin
  - c. Ethosuximide.
2. Write the synthesis of 10
  - a. Fentanyl citrate
  - b. Methadone hydrochloride.
3. Write the synthesis of (*any two*) 10
  - a. Diazepam
  - b. Chlorpromazine hydrochloride
  - c. Barbital.

— — —