

**III. Short answers (Answer seven out of nine questions) 5x7=35**

1. Define adrenergic blockers. Highlight two examples non-selective alpha adrenergic blockers with structures. 2+3
2. Give synthesis of ipratropium bromide and dicyclomine HCl. 2+3
3. Write the SAR of cholinergic blocking agent. 5
4. Write the biosynthesis of adrenaline. 5
5. Classify general anaesthetics. Write their mechanism of action. Outline the synthesis of Halothane. 2+1+2
6. Write the biological source of opium. Discuss SAR of morphine analogues. 1+4
7. Discuss the SAR of barbiturates. Outline the synthesis of phenytoin. 3+2
8. Define anticonvulsant. Outline the synthesis of ethosuximide and mention its mechanism of action. 1+3+1
9. What is bioisosterism? Discuss different type of bioisosterism with suitable examples. 1+4

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2023/EVEN/13/38/BP-402/008

**B Pharm Even Semester Examination, September, 2023**

**PHARMACEUTICAL SCIENCES**

**(4th Semester)**

**Course No: BP-402T**

(Medicinal Chemistry-I- Theory)

FM: 75

Time: 3 Hours

*The figures in the right margin indicate full marks for the question*

**I. A. Multiple Choice questions 1x10=10**

1. Which of the following drug does not bind to the GABA receptor?
 

i) Alprazolam	ii) Phenobarbitone
iii) Oxazepam	iv) Buspirone
2. What would be the last stage of general anaesthesia?
 

i) Delirium	ii) Amnesia
iii) Analgesia	iv) Respiratory paralysis
3. Which of the following enzymes is not involved in catalyzing Phase I metabolic reaction?
 

i) Flavin-containing monooxygenases	ii) Oxidation of alkyl groups
iii) Glucuronyl transferase	

Turn Over

