

B.Pharm Fifth Semester (C.B.S.) Examination
PHARMACEUTICAL MEDICINAL CHEMISTRY—I
Paper—2

Time : Three Hours]

[Maximum Marks : 80

- N.B. :—** (1) Question No. 1 is compulsory.
 (2) Attempt any **four** questions out of remaining.
 (3) Discuss the reaction, mechanism wherever necessary.

1. Attempt any **five** of the following :
 - (a) Write Chemical name, use and synthesis of phenobarbitone.
 - (b) Discuss about blood brain barrier.
 - (c) Write note on drugs used in treatment of Alzheimer's disease.
 - (d) Explain in detail about oxytocics.
 - (e) Enlist different physicochemical parameters affecting drug action. Explain any one of them.
 - (f) Write Chemical name, use and synthesis of tolbutamide.
 - (g) Write note on CNS stimulant agents. 5×4=20
2. What is Asthma ? Classify chemically antiasthmatic agents. Give synthesis of any one drug and write briefly on antitussive and decongestant. 15
3. (a) Discuss about thyroid hormones and antithyroid drugs. 7
 (b) Explain chemistry of hypoglycemic agents with examples. 8
4. What are different biological factors affecting drug metabolism ? Write in detail about functionalisation and conjugation reactions with different examples. 15
5. What are NSAID's ? Explain salol principle with examples. Write in detail chemical classification of NSAID's giving synthesis and uses of Ibuprofen. 15
6. (a) What is convulsion ? Write chemistry of anticonvulsant agents with suitable examples. 8
 (b) Write note on prostaglandins and eicosanoids. 7
7. Write notes on any **three** of following :
 - (a) Principles of prodrug design and applications
 - (b) Drugs used in Parkinsonism
 - (c) Antidepressants
 - (d) Local anaesthetics. 3×5=15