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 $5 \times 4 = 20$

B.Pharm. Third Semester (C.B.S.) Examination PHARMACOLOGY—I

Paper-4 (3T4)

Time : Three Hours]	[Full Marks : 80
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N.B.: (1) Question No. 1 is compulsory.

- (2) Solve any FOUR questions from the remaining.
- Draw neat labeled diagram wherever necessary.
- Solve any five :
 - (a) Explain significance of blood brain barrier.
 - (b) Write principle and methodology of digitalis bioassay.
 - (c) Write significance of subcutaneous route of drug administration with suitable examples.
 - (d) Differentiate competitive and non competitive antagonism with suitable examples.
 - (e) Describe various factors modifying drug action.
 - (f) Explain biotransformation of drugs with suitable examples.
 - (g) Describe partial agonist and inverse agonist with suitable examples.
- Explain signal transduction mechanism. Add a note on secondary messenger system of G-protein coupled receptors.
- Discuss in detail various factors affecting absorption of drug across gastro-entestinal trout. Add a note on first pass metabolism.
- Differentiate oral and parenteral route of drug administration. Describe various parenteral routes with their merits and demerits.
- Describe different types of adrenergic receptor along with its location and physiological significance.
 Add a note on various adrenergic agonists used clinically.
- Describe in detail pharmacological profile of different Anti-muscarnic agents with specific clinical indications. Add a note on treatment of organophosphate poisoning.
- Write short notes on any three of the following:
 - (a) Mechanism of action and clinical indications of ganglionic blocks.
 - (b) β-adrenergic antagonists
 - (c) Neuromuscular blocking agents
 - (d) Bio-assay of insulin. 3×5=15

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