

B. Pharm. 3rd Year 1st Semester Examination 2019.

Time: 3 hours

Subject: Pharmacology-I

Full Marks: 100

(Answer any *five* questions taking at least *one* from each group)

GROUP - A

1. Define the terms Pharmacology, Pharmacokinetics and Pharmacodynamics. Mention the major routes of drug administration. Write in short about parenteral routes of drug administration.
6+4+10=20

2. What are the major transport mechanism by which drugs biotransported and briefly discussed any one of transporting mechanism. Discussed the different factors that influence the absorption of drugs.
6+8+6=20

3. Write notes on (any two):
 - a. Drugs biotransformation.
 - b. Tolerance.
 - c. Nuclear receptor.

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Name of Examination: B.PHARM 3rd yr, 1st Sem. Exam. 2019

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Clearly mention the question number and part number for each answer.

GROUP - B

Q4 Explain the following:

- (a) Effect of acetylcholine on blood pressure and mammalian heart.
- (b) Anti-cholinergic effect of Vesamicol, Hemicholinium and Botulinus toxin.
- (c) 'One neurone – one transmitter' model is an over simplification of a much complicated process.
- (d) Mention two examples each for different types of Ganglioplegics. ----- 6+6+6+2

Q5

- (a) With the help of schematic diagram explain the sites of action of ocular hypotensive drugs used in the management of Glaucoma (both types).
- (b) Schematically write down the steps and agents involved in Cholinergic and Adrenergic nervous transmission.
- (c) Mention one example each for different types of Anti-cholinesterases. -----10+7+3

Q6

- (a) Explain how different types of drugs are used in the management of Myasthenia gravis.
- (b) Effect of Pilocarpine on eye.
- (c) Why Dicyclomine HCl helps to relieve abdominal cramps? ----- 10+5+5