Total No. of Questions : 6] SEAT No. :

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[5245]-305
S.Y. B. Pharmacy (Semester - III)
PHARMACOLOGY - I
(2013 Pattern)

Time : 3 Hours] *[Max. Marks : 70*

Instructions to the candidates:

1) ***All questions are compulsory.***
2) ***Figures to the right side indicate full marks.***
3) ***Write answers for section - I and section - II in separate answer sheets.***

SECTION - I

Q1) Enlist and explain factors affecting drug distribution. **[10]**

OR

Enlist various routes of drug administration. Explain advantages and disadvantages of various routes of drug administration. **[10]**

Q2) Solve any five

a) Define absorption and explain factors affecting absorption of drug. **[3]**

b) What are different sources of drugs? **[3]**

c) Define drug distribution, metabolism and excretion. **[3]**

d) Define half-life of drug? Give its importance. **[3]**

e) Discuss structure and functions of plasma membrane. **[3]**

f) Define clinical trials? Enlist phases of clinical trials. **[3]**

g) What are the organs and enzymes involved in drug metabolism? **[3]**

Q3) Solve any two

a) What do you mean by therapeutic drug monitoring? Give its importance. **[5]**

b) Write a note on transportation of drug across plasma membrane. **[5]**

c) Discuss factors affecting drug excretion. **[5]**

d) Discuss new approaches in new drug discovery and development process. **[5]**

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SECTION - II

Q4) Write in detail drug receptor interaction and signal transduction mechanism in different type of receptor. **[10]**

OR

Discuss synthesis, storage, release and pharmacological actions of prastglandines. **[10]**

Q5) Answer the following (Any five)

a) Write in detail factors modifying drug action. **[3]**

b) Explain in detail dose response curve. **[3]**

c) Define pharmacodynamics and add a note on therapeutic Index. **[3]**

d) Discuss in detail drug treatment in geriatric patients. **[3]**

e) Define adverse drug reactions with their type. **[3]**

f) Write in details different type and pathophysiological role of leukotrienes. **[3]**

g) Explain in detail structure activity relationship and its effect on drug action. **[3]**

Q6) Solve any two **[10]**

a) Explain in detail drug synergism and drug antagonism and its types.

b) Define drug interaction and classify them with example.

c) Classify 5-HT receptor and write about its antagonist.

d) Discuss transduction mechanism of G protein coupled receptor.