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Paper Id: 298102 **Roll No.** | | | | | | | | | | |

M PHARM
(SEM 1) THEORY EXAMINATION 2018-19
ADAVNCED PHARMACOLOGY 1

Time: 3 Hours ***Total Marks: 75***

Note: 1. Attempt all Sections. If require any missing data; then choose suitably.

SECTION A

1. Attempt *all* questions in brief. **10 x 2 = 20**

a. Explain the significance of protein binding.
b. What do you mean by biotransformation of a drug?
c. What factors influence the absorption of a drug ?
d. What are the differences between positive and negative schizophrenia?
e. Explain epilepsy.
f. How does atenolol acts as a antihypertensive drugs?
g. What are anticoagulants. Suggest some examples?
h. Explain autocoids.
i. Narrate the elimination processes of a drug molecule
j. Explain in brief "Non adrenergic non cholinergic transmission (NANC)"

SECTION B

2. Attempt any *two* parts of the following: **2 x 10 = 20**

a. Explain one and two compartmental model of drug distribution
b. Discuss in detail the various steps involved in the process of neurotransmission.
c. Classify various types of antihypertensive drugs commonly used. Write a short note on parasympatholytic agents.

SECTION C

3. Attempt any *five* parts of the following: **7 x 5 = 35**

a. Explain in detail the pharmacology, toxicological profile and mechanism of action of various categories of drugs affecting neuromuscular junction.
b. Discus the various types of anxietic disorders in an individual. Suggest the various mechanism to treat such disorders in a patient.
c. Suggest the various types of narcotic and non-narcotic analgesics highlighting their mechanism of action and toxicological profiles.
d. Classify drugs used to treat cardiac arrhythmia and hyperlipidemia. Discuss their mechanism of action in detail.
e. Discuss the physiological and pathological roles of histamines and prostaglandin.
f. Justify the various stages of anesthesia. Describe in detail the mechanism of action of various local and general anesthetics commonly used.
g. Write short notes on:

    i. 5HT antagonists
    ii. Hematinics