Roll No:

BPEARM
(SEM IV) THEORY EXAMINATION 2021-22
PHARMACOLOGY I – THEORY

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.	Examine advantages and disadvantages of oral routes of administration.
b.	Define the terms bioavailability.
c.	Elaborate therapeutic index and synergism.
d.	Explain mechanism of action of local anesthetics.
e.	Demonstrate the synthesis, storage and release of adrenaline diagrammatically.
f.	Enlist drugs used for open angle glaucoma.
g.	Define and classify neurotransmitters.
h.	Compare general and local anesthetic agents.
i.	Classify drugs for Alzheimer's disease.
j.	Compare drug addiction and habituation.

SECTION B

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

a.	Explain various drug receptor signal transducer mechanisms.
b.	Summarize antiepileptic drugs and their mechanisms. Explain pharmacology of sodium valproate. https://www.aktuonline.com
c.	Classify opioid analgesics. Discuss pharmacology of morphine.

SECTION C

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

a.	Illustrate various factors affecting drug absorption.
b.	What do you understand by preclinical evaluations? Discuss various clinical trial phases.
c.	Classify anticholinergics. Discuss pharmacological action and uses of atropine.
d.	Summarize steps involved in neurohumoral transmission of autonomic neurons.
e.	Explain various stages of anesthesia. Discuss preanesthetic medication.
f.	Classify drugs for Parkinson's disease. Explain levodopa therapy.
g.	Discuss the mechanism of action, pharmacological actions and uses of Benzodiazepines and barbiturates.

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