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**MPHARM**  
**(SEM I) THEORY EXAMINATION 2021-22**  
**ADVANCED PHARMACOLOGY-I**

**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.	Write the mode of action of Clonazepam
b.	Explain the mode of action of COX II inhibitors with examples.
c.	Mention the uses of erythropoietin
d.	What is bioavailability?
e.	What are eicosanoids?
f.	Explain the MOA of procainamide
g.	Suggest the role of diuretics in the treatment of hypertension.
h.	Suggest few examples of anti-ischemic agent.
i.	Cite the major differences between narcotic and non-narcotic analgesic agents.
j.	Name any four selective serotonin reuptake inhibitors.

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

a.	Give a detail account on neurotransmitter dopamine, its receptors & dopaminergic pathways
b.	Discuss in detail the pathophysiology of diseases, mechanism of action, pharmacology and toxicology of drugs affecting neuromuscular junctions
c.	Explain signal transduction pathways of adrenergic receptor in heart muscle. Suggest the roles of cytokines in various inflammatory diseases.

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

a.	Explain drug receptor interaction. Write a note on GPCR
b.	Explain the major functional pathways of G-protein coupled receptor transduction. Highlight dopaminergic pathways and their functions
c.	Explain the pathophysiology of depression. Write an exhaustive note on pharmacology of anti-anxiety drugs
d.	Classify antiepileptics. Explain pharmacology of phenytoin. What is Lennox-Gas taut syndrome?
e.	Explain the various categories of antihypertensive drugs highlighting their mode of action and side effects.
f.	Write a short note on anticoagulants and explain the uses of erythropoietin
g.	Classify antiparkinsonian drugs. Justify with reason for carbidopa been given with levodopa?