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UNIVERSITY OF PETROLEUM AND ENERGY STUDIES
End Semester Theory Examination, May 2022

Course: Pharmacology-I
Program: B. Pharm.
Course Code: BP 408T


Semester: IV
Time: 03 hrs.
Max. Marks: 75

Instructions: Attempt all the questions

SECTION A

S. No.	CO	Multiple Choice Questions (10X1=10) and Objective type Questions (5X2=10)	Marks
			20
1	CO1	Acidic drugs bind to a. Globulin b. α -1 glycoprotein c. Albumin d. None	1
2	CO2	The sympathetic nervous system preganglionic neuron releases _____ neurotransmitter: a. Serotonin b. Acetylcholine c. Norepinephrine d. Arginine	1
3	CO1	In which of the following phases of clinical trials of drug, ethical clearance is not required: a. Phase I b. Phase II c. Phase III d. Phase IV	1
4	CO2	Muscarinic cholinergic receptors are seen at all sites except: a. Neuromuscular Junction b. CNS c. Heart d. Stomach	1
5	CO3	Mechanism of action of Beta blockers in glaucoma a. Increased aqueous outflow b. Decreased aqueous production c. Opening of trabecular meshwork	1

		d. All of the above	
6	CO2	True about benzodiazepine is: a. GABA mimetic b. GABA facilitator c. High abusive potential d. Powerful enzyme inducer	1
7	CO2	All of the following antiepileptic agents act via sodium channel except: a. Vigabatrin b. Phenytoin c. Valproate d. Lamotrigine	1
8	CO2	For antipsychotic action, activity is required at _____ receptor- a. M ₁ muscarinic b. D ₁ dopaminergic c. D ₂ dopaminergic d. 5HT ₄ serotonergic	1
9	CO1	Which of the following is not a SSRI? a. Escitalopram b. Sertraline c. Paroxetine d. Amitriptyline	1
10	CO1	Specific inhibitor of alcohol dehydrogenase: a. Disulfiram b. Fomepizole c. Methyl alcohol d. Zolpidem	1
Objective type answers (5 x 2 =10)			
11	CO5	Why levodopa is combined with carbidopa in treatment of Parkinson's disease?	2
12	CO2	Write on β_1 , β_2 and β_3 adrenergic receptors key distribution in body.	2
13	CO1	What is Teratogenicity?	2
14	CO5	Is acetylcholine used as a drug? Justify your answer.	2
15	CO4	Define mydriasis and meiosis.	2
SECTION B			
Long Answers (Answer two out of 3) 2X10			
			20

1	CO1, CO3, CO5,	<p>Explain the pathophysiology and treatment of disease in picture.</p>  <p>T Tremor: shaking, usually starting on one side</p> <p>R Rigidity: stiffness of the limbs, neck, or trunk</p> <p>A Akinesia: loss or impairment in power of voluntary movement</p> <p>P Posture and balance</p>	10
2	CO1 CO3	Discuss the role of drugs (agonist and antagonist) acting on beta-adrenergic receptors in possible disease treatment.	10
3	CO1 CO2 CO3	Enlist major pathways of G-Protein coupled receptors. Explain two of them in detail.	10

SECTION C

Short Answers (Answer 7 out of 9) 7X5

			35
1	CO3, CO5	What are extrapyramidal side effects? Name the drugs causing extrapyramidal side effects.	5
2	CO2	Discuss the mechanism of antidepressant drugs.	5
3	CO2, CO3	Explain the pharmacology of adrenaline.	5
4	CO1	Write a short note on myasthenia gravis.	5
5	CO3, CO5	Describe the stages of anesthesia.	5
6	CO4	Discuss the clinical use of anticholinergic drugs	5
7	CO1, CO2	Classify antiepileptic drugs.	5
8	CO3	Write a note on neuromuscular blocking agent.	5
9	CO1, CO2, CO5	Discuss treatment strategies in glaucoma	5
		Total	75