

Name:	
Enrolment No:	

UNIVERSITY OF PETROLEUM AND ENERGY STUDIES
End Semester Examination, December 2022

Course: Pharmacology-1	Semester: III
Program: B.Sc. M.Sc. Integrated Clinical Research	Duration: 3 Hours
Course Code: HSCR2012	Max. Marks: 100

Instructions: Attempt all questions

S. No.	Section A Short answer questions/ MCQ/T&F (20Qx1.5M= 30 Marks)	Marks	COs
Q 1	What is Bioavailability?	1.5	CO1
Q2	Name two anti-anxiety drugs	1.5	CO1
Q3	Good clinical practice is not required for: a. Preclinical Studies b. Phase I c. Phase II d. Phase III	1.5	CO5
Q4	Norepinephrine action at synaptic cleft is terminated by- a. Metabolism by COMT b. Metabolism by MAO c. Reuptake d. Metabolism by acetylcholine	1.5	CO1
Q5	Is acetylcholine used as a drug? Justify your answer.	1.5	CO4
Q6	Define Idiosyncrasy	1.5	CO1
Q7	Pilocarpine in eye causes: a. Active miosis b. Active mydriasis c. Passive miosis d. Passive mydriasis	1.5	CO3
Q8	Activation of the sympathetic nervous system leads to the 'fight and flight' response. Which of these is not part of that process a. Vasodilatation in skeletal muscle b. Sweating c. Bladder relaxation	1.5	CO4

	d. Increased gut motility		
Q9	The drug not used for analgesia in head injury patient is- a. Morphine b. NSAIDs c. Rofecoxib d. Acetaminophen	1.5	CO2
Q10	moclobemide is- a. SSRI b. Antipsychotic drug c. MAO inhibitor d. prevent reuptake of adrenaline	1.5	CO1
Q11	long term use of lithium causes- a. Hypothyroidism b. Hypopituitarism c. Diabetes mellitus d. Hyperthyroidism	1.5	CO3
Q12	Index of potency of general anesthesia- a. Minimum alveolar concentration b. Diffusion coefficient c. Dead Space concentration d. Alveolar blood concentration	1.5	CO3
Q13	Which of the following is not an antidepressant? a. Amitriptyline b. Fluoxetine c. Imipramine d. Chlorpromazine	1.5	CO4
Q14	All are side effects of clozapine except- a. Granulocytopenia b. Seizures c. Sedation d. Extrapyrimal side effects	1.5	CO2
Q15	Drug of choice for epilepsy in pregnancy is- a. Carbamazepine b. Sodium valproate c. Phenobarbitone d. Phenytoin	1.5	CO3
Q16	A patient of parkinsonism is managed with L-dopa. if vitamin B-complex is administered concurrently- a. The action of L-dopa in brain will be potentiated b. Decarboxylation of L dopa in brain will be decreased c. Side effects will be ameliorated d. Decreased efficacy will result	1.5	CO4
Q17	Drug of choice for tonic clonic seizures is?	1.5	CO1

	<ul style="list-style-type: none"> a. Sodium valproate b. Carbamazepine c. Phenobarbitone d. Felbamate 		
Q18	<p>Specific inhibitor of alcohol dehydrogenase is?</p> <ul style="list-style-type: none"> a. Disulfiram b. Fomepizole c. Methyl alcohol d. Zolpidem 	1.5	CO4
Q19	<p>The μ receptor of the opioids is responsible for following clinical actions except-</p> <ul style="list-style-type: none"> a. Analgesia b. Sedition c. Respiratory depression d. Diuresis 	1.5	CO1
Q20	<p>Carbamazepine is not used in-</p> <ul style="list-style-type: none"> a. Mania b. Partial seizure c. Trigeminal neuralgia d. Migraine 	1.5	CO1
<p>Section B (4Qx5M=20 Marks)</p>			
Q 1	Write a brief note on drugs for myasthenia gravis.	5	CO3
Q2	Write a note of Anti-anxiety drugs	5	CO1
Q3	Discuss the mechanism of action of local anesthetics.	5	CO2
Q4	What are extrapyramidal side effects? Name two drugs causing extrapyramidal side effects.	5	CO1
<p>Section C (2Qx15M=30 Marks)</p>			
Q 1	<ul style="list-style-type: none"> a. Define epilepsy and types of epilepsy. b. Classify antiepileptic agents (with example) based on mechanism of action. c. Name two antiepileptic drug safe in pregnancy 	5+8+2	CO1, CO4
Q2	Explain the pathophysiology and treatment strategy (classification, mechanism and examples) for Parkinson's disease.	(5+10)	CO1, CO4
<p>Section D (2Qx10M=20 Marks)</p>			
Q 1	Define receptors. Write a detailed note of transducer mechanism of drug action.	10	CO1

Q2	a. Describe the stages of anesthesia. b. Classify and write the mechanism of action of general anesthetics.	10	CO1
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