

UNIVERSITY OF PETROLEUM AND ENERGY STUDIES

End Semester Examination, December 2021

Program:MSc Clinical ResearchSemester:IIICourse:Pharmacotherapeutic-IIDuration:03 hoursCourse Code:HSCR8002Max. Marks:100

Instructions: All questions are compulsory

	SECTION A (20Q x1.5M=3	(20Q x1.5M = 30)	СО
	(Type the answers in test box)	Marks)	CO
	MCQs, One or two line answers, True/False, Fill in the blanks	1.5	
Q1	Which of the following terms refers to the ability of an antimicrobial drug to harm the target microbe without harming the host? a. Mode of action b. Therapeutic level c. Spectrum of activity	1.5	
	d. Selective toxicity		CO1
Q2	Which of the following is not a type of β-lactam antimicrobial?	1.5	
	a. Penicillinsb. Glycopeptidesc. Cephalosporinsd. Monobactams		
			CO1
Q3	Citrullination is conversion ofto citrulline a. Threonine b. Arginine c. Methionine	1.5	
	d. Tryptamine		CO1
Q4	Bronchodilator in COPD- a. Anticholinergics b. Antiadrenergic c. Cholinergic	1.5	
05	d. Alpha agonists The drug of choice for obsessive compulsive disorder is which one of	1.5	CO1
Q5	the following- a. Sertraline b. Amoxapine c. Hydroxizine	1,3	COL
06	d. Alprazolam On observing treetment with a drug nations presents with ging ive l	1.5	CO1
Q6	On chronic treatment with a drug, patient presents with gingival hyperplasia and facial hirsutism. The drug most likely to cause these side-effects is- a. Phenytoin b. Carbamazepine	1.5	
	c. Valproic acid		CO1

	d. Phenobarbitone		
Q7	Write names of hormones secreted from adrenal gland	1.5	CO1
Q8	What is teratogenicity	1.5	CO1
Q9	Name three drugs used in Alzheimer's disease	1.5	CO1
Q10	Which of the following induction agent is the most suitable for day care surgery? a. Morphine b. Propofol c. Diazepam	1.5	
0.1.1	d. Ketamin	4.5	CO2
Q11	a. Aprepitantb. Dexamethasonec. Ondansetron	1.5	G04
012	d. All of the above Acamprostate is used for-	1.5	CO2
Q12	a. Alcohol abstinence b. Nicotine abstinence c. Opioid abstinence d. Cocaine abstinence	1.3	CO2
Q13	Which of the following SSRIs is a prodrug? a. Paroxetine b. Citalopram c. Fluvoxamine	1.5	
	d. Fluoxetine		CO2
Q14	Define pharmacogenomics		CO2
Q15	Which prostaglandin is used in NSAID induced ulcer a. Misoprostol b. Carboprost c. Mirtazapine d. Miprinone	1.5	CO3
Q16	The primary goal of glucocorticoid treatment in rheumatoid arthritis is? a. Suppression of inflammation and improvement in functional capacity b. Reversal of degenerative process c. Development of a sense of wellbeing in patients d. Prevention of prevention of suppression of the hypothalamic	1.5	
	pituitary-adrenal axis		CO3
Q17	The drug not used for analgesia in a head injury patient is a. Morphine b. NSAIDs c. Rofecoxib d. Acetaminophen	1.5	CO3
Q18	Drug of choice of hypertension in pregnancy a. Methyldopa b. Thiazide c. Metoprolol	1.5	
	d. Labetaol		CO3

	Your 60 year old male hypertensive patient who had an myocardial	1.5	
_	infarction a year ago is now showing signs of CHF. You therefore add		
	spironolactone to his drug regimen. What side effect should you warn him		
	about?		CO3
O20	True about benzodiazepine is-	1.5	
	a. GABA mimetic		
	b. GABA facilitator		
	c. Not a safe drug		
	d. Powerful enzyme inducer		CO4
	SECTION B	(4Qx5M=20	
	(Scan and upload)	Marks)	co
	Short Answer Type Question (Word limit 200)	ividins)	
Q1	Write a note on Hypolipidaemic drugs	5	
ŲI	write a note on Trypoupidaenne drugs	3	CO2
Q2	Classify Anti-epileptics drugs.	5	
Q2	Classify Aftir-epiteptics drugs.	3	CO2
Q3	Explain the site of action for antidepressant drugs?	5	
Q5	Explain the site of action for antidepressant drugs:	3	CO2
Q4	Write a note on mechanism of action of alcohol and it's inhibitor in	5	
Q +	CNS	3	CO3
	SECTION C	(2Qx15M=30	
			CO
	(Scan and upload)	Marks)	
	Please answer the questions in briefly with correct logic and		
0.1	reasoning.	(2, 5, 7)	
Q1	A patient has severe allergic	(3+5+7)	
	reaction and has been		
	Moon face suggested to take a medication		
	Buffalo hump (in women) required in advance cases of		
	osteoporosis allergy. Somehow the patient		
	Cardiac hypertrophy continues to take the medicine		
	for long time The patient has		
	Obesity come to the Dr. with		
	complaint of muscular		
	Muscle wasting in the extremities weakness, increase urination		
	Abdominal striae and swelling on face and		
	Skin ulcers (poor		
	wound healing) Amenorrhea (in women) Amenorrhea (in women) Shoulder (moon face). The Dr. immediately decides to go for		
	some test and observed the signs of hyperplyce mia		
	signs of hypergiyee mu,		
	osteoporosis and increased urinary level of uric acid. However, the		
	osteoporosis and increased urinary level of uric acid. However, the patient is unaware of the drug he has been administering. Being a		
	osteoporosis and increased urinary level of uric acid. However, the patient is unaware of the drug he has been administering. Being a pharmacologist the Dr. has contacted you for better understanding of		
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	osteoporosis and increased urinary level of uric acid. However, the patient is unaware of the drug he has been administering. Being a pharmacologist the Dr. has contacted you for better understanding of situation: a. Please help the Dr. to figure out the drug for severe allergic reaction involved.		
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	osteoporosis and increased urinary level of uric acid. However, the patient is unaware of the drug he has been administering. Being a pharmacologist the Dr. has contacted you for better understanding of situation: a. Please help the Dr. to figure out the drug for severe allergic reaction involved. b. Name the disease a patient might be suffering with and indicate		CO3,
	osteoporosis and increased urinary level of uric acid. However, the patient is unaware of the drug he has been administering. Being a pharmacologist the Dr. has contacted you for better understanding of situation: a. Please help the Dr. to figure out the drug for severe allergic reaction involved. b. Name the disease a patient might be suffering with and indicate the drugs to be used in treatment. c. Explain him the reason behind moon face, hyperglycemia,		CO3, CO4
Q2	osteoporosis and increased urinary level of uric acid. However, the patient is unaware of the drug he has been administering. Being a pharmacologist the Dr. has contacted you for better understanding of situation: a. Please help the Dr. to figure out the drug for severe allergic reaction involved. b. Name the disease a patient might be suffering with and indicate the drugs to be used in treatment.	(5+3+4+3)	

	enalapril and a diuretic. His blood pressure is under acceptable control		
	and he has no symptoms of heart failure at present. He does complain		
	that he has been coughing frequently in the past few months. History		
	and examination reveal no other cause of a chronic cough, so you		
	decide to discontinue his enalapril and start another drug.		
	a. What another drug will most probably be given and briefly writes its mechanism?		
	b. What is the mechanism of action of enalapril?		
	c. By what mechanism does enalapril convert to its active form		
	enalaprilat?		
	d. What is the likely cause of the cough?		
	SECTION- D	(2Qx10M=20	
	(Scan and upload)	Marks)	CO
	Long Answer type Question (word limit 500)		
Q1	Describe the pathophysiology of Asthma and pharmacotherapy of	(5+5)	CO1
	Asthma.		CO4
Q2	a. Write a note on drug resistance and its type.	(5+5)	CO1
	b. Discuss the role of diuretics in management of hypertension.		CO4