

## UNIVERSITY OF PETROLEUM AND ENERGY STUDIES

**End Semester Examination, May 2022** 

Program: MSc Clinical Research Semester: II

Course: Pharmacology and Toxicology-II Duration: 03 hours

Course Code: HSCR7011 Max. Marks: 100

**Instructions: All questions are compulsory** 

Q1 What  Q2 Write  Q3 Nitr  a. b. c. d.  Q4 An i over a. b. c. d.  Q5 Side a. b. c. d.  Q6 Main a. b. c. d.  Q7 Digor a. b. c. d.  Q8 The a	SECTION A  (Type the answers in test box)	(20Q x1.5M= 30 Marks)	СО
Q2 Write Q3 Nitr a. b. c. d. Q4 An i over a. b. c. d. Q5 Side a. b. c. d. Q6 Main a. b. c. d. Q7 Digor a. b. c. d. Q8 The a	MCQs, One or two line answers, True/False, Fill in the blanks	1.5	
Q3 Nitr.  a. b. c. d. Q4 An i over a. b. c. d. Q5 Side a. b. c. d. Q6 Main a. b. c. d. Q7 Digor a. b. c. d. Q8 The a	What is LD <sub>50</sub> ?	1.5	CO3
Q4	Write names of hormones secreted from posterior pituitary gland	1.5	CO3
Q4 An i over a. b. c. d. Q5 Side a. b. c. d. Q6 Main a. b. c. d. Q7 Digor a. b. c. d. Q8 The a	Nitrates in classical angina act by dilating-  a. Veins  b. Aorta c. capillaries	1.5	
Over   a.   b.   c.   d.	d. Coronary sinus		CO1
Q5 Side	overcome by which of the following drugs- a. Minoxidil b. Metoprolol c. Metolazone	1.5	
a. b. c. d. Q6 Main a. b. c. d. Q7 Digor a. b. c. d. Q8 The a	d. Milrinone	1.5	CO1
Q6 Main a. b. c. d. Q7 Digor a. b. c. d. Q8 The a	Side effects of thiazide diuretics are all except- a. Hyponatremia b. Hypokalemia c. Erectile dysfunction d. Hypocalcemia	1.5	CO3
a. b. c. d. O. C. d. Q8 The a	**	1.5	CO3
a. b. c. d. Q8 The a	<ul> <li>a. Can be used in pregnancy</li> <li>b. Does not cause hyperkalemia</li> <li>c. Does not cause cough</li> <li>d. All of the above</li> </ul>		CO1
d. Q8 The a	<ul><li>a. Renal impairment</li><li>b. Hyperkalemia</li></ul>	1.5	
Q8 The a	d. Hypomagnesemia		CO1
c.		1.5	CO2

Q9 The 5-HT <sub>3</sub> antagonist drugs are clinically used as	1.5	CO1
Q10 Testosterone is inactive orally due to	1.5	
Q11 In patients taking oral contraceptive, the chance of p		CO4
after taking any of the following drugs except-	regnancy increases 1.5	
a. Phenytoin		
b. Griseofulvin		
c. Ampicillin		
d. Cimetidine		CO5
Q12 Effect of estrogen are all of the following except-	1.5	
a. Reduces HDL		
b. Reduces LDL		
c. Reduces bone resorption		
d. Increase triglyceride		CO2
Q13 A patient develops hypoglycemia. He was on insulin	and acarbose. For 1.5	
treatment of above what should be given?		
a. Glucose		
b. Maltose		
c. Sucrose		
d. Starch		CO5
Q14 Define minimum inhibitory concentration of antibiotic	es	CO2
Q15 Multiple drug resistance is transferred through	1.5	002
a. Transduction		
b. Transformation		
c. Conjugation		
d. Mutation		CO4
Q16 Drug used in breast cancer is-	1.5	
a. Testosterone		
b. <b>Tamoxifen</b>		
c. Chlorambucil		
d. Cyproterone		CO3
Q17 Active metabolite of azathioprine is-	1.5	
a. 6-thioguanine		
b. 6-thiouracil		
c. 6-mercaptopurine		
d. 6-mercaptoguanine		CO3
Q18 Which of the following immunosuppressive agent requ	uires monitoring of 1.5	
renal function on regular basis-		
a. Azathioprine		
b. Mycophenolate mofetil		
c. Methotrexate		
d. Cyclosporine A		CO3
Q19 Your 60 year old male hypertensive patient who h	•	
infarction a year ago is now showing signs of CHF.		
spironolactone to his drug regimen. What side effect sh	ould you warn him	
about?		CO3
Q20 Which of the following toxicity can occur due to singl	e exposure? 1.5	
a. Acute toxicity		
b. Sub-acute toxicity		
c. Sub-chronic toxicity		~~:
d. Chronic toxicity		CO4

	SECTION B Short Answer Type Question (Word limit 250)	(4Qx5M=20 Marks)	СО
Q1	Discuss the procedure for sub-chronic oral toxicity.	5	CO2
Q2	Explain drug resistance and its type.	5	CO2
Q3	Write a note on anti-histaminic agents	5	CO2
Q4	What are clinical application of Immunosuppressants and Immunostimulants.	5	CO3
	SECTION C	(2Qx15M=30 Marks)	СО
	Please answer the questions to the point.		
Q1	Describe pharmacology of insulin in body. Classify and discuss the Oral	(5+10)	CO3,
	hypoglycemic agents.		CO4
Q2	Discuss the differences between pathophysiology and therapy for heart	(5+5+5)	CO3
	attack, heart failure and cardiac arrest.		CO4
	SECTION- D	(2Qx10M=20	со
	Long Answer type Question (word limit 500)	Marks)	
Q1	Elaborate the mechanism of action of antimicrobials with examples.	(10)	CO1
			CO4
Q2	Briefly discuss regulatory requirements for toxicity studies in animals.	10	CO1
			CO4