



UNIVERSITY WITH A PURPOSE

**UNIVERSITY OF PETROLEUM AND ENERGY  
STUDIES**

**End Semester Examination, May 2021**

**Course:** BSc Clinical Research

**Semester:** IV

**Program:** Pharmacotherapeutics-II

**Duration:** 03 hrs.

**Course Code:** HSCR2010

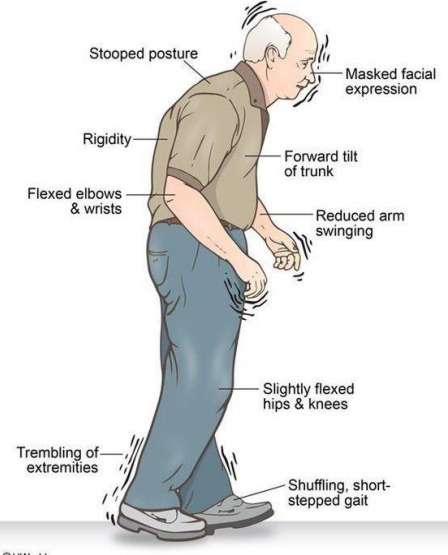
**Max. Marks:** 100

**Instructions:**

**All questions are compulsory**

<b>SECTION A</b> <b>(Type the answers in test box)</b>		<b>(20Q x1.5M= 30 Marks)</b>	<b>CO</b>
	MCQs, One or two line answers, True/False, Fill in the blanks	<b>1.5</b>	
Q1	Which drug doesn't include DMARD- a. Chloroquine b. Vincristine c. Azathioprine d. Leflunomide	<b>1.5</b>	<b>CO2</b>
Q2	Drug of choice for acute attack of gout is- a. Allopurinol b. Corticosteroids c. Colchicine d. NSAIDs	<b>1.5</b>	<b>CO1</b>
Q3	Which group of diuretics is considered to be the DOC (drugs of choice) for long term management of mild to moderate hypertension? a. Mannitol b. Thiazides c. Loop diuretics d. Carbonic anhydrase inhibitors	<b>1.5</b>	<b>CO2</b>
Q4	Acetazolamide is most commonly used to treat _____ a. Chronic open-angle glaucoma b. Severe hypertension c. Congestive heart failure d. Chronic gout	<b>1.5</b>	<b>CO5</b>
Q5	Most common side effect of 5-Fluorouracil is- a. Gastrointestinal toxicity b. Cardiotoxicity c. Neurotoxicity d. Bone marrow depression	<b>1.5</b>	<b>CO2</b>
Q6	Drug of choice for absence seizure is- a. Phenytoin b. Phenobarbitone c. Sodium valproate d. Clonazepam	<b>1.5</b>	<b>CO2</b>
Q7	Drug of choice for epilepsy in pregnancy is- a. Phenytoin	<b>1.5</b>	<b>CO4</b>

	<ul style="list-style-type: none"> <li>b. Phenobarbitone</li> <li>c. Sodium valproate</li> <li>d. Carbamazepine</li> </ul>		
Q8	<p>Which of the following drug decreases the effect of levodopa-</p> <ul style="list-style-type: none"> <li>a. carbidopa</li> <li>b. MAO inhibitors</li> <li>c. COMT inhibitors</li> <li>d. Vitamin B complex</li> </ul>	1.5	CO1
Q9	What is apoptosis?		
Q10	What is natural pacemaker?	1.5	CO1
Q11	Name three drugs used in angina pectoris	1.5	CO1
Q12	Define angioplasty and angiography	1.5	CO5
Q13	Name first line drugs for open angle glaucoma	1.5	CO3
Q14	What are symptoms of psoriasis	1.5	CO4
Q15	<p>Central inhibitor of dopamine metabolism is-</p> <ul style="list-style-type: none"> <li>a. Carbidopa</li> <li>b. Selegeline</li> <li>c. Orphenadrine</li> <li>d. Bromocriptine</li> </ul>	1.5	CO2
Q16	<p>An increase in heart rate and renin release seen in patients of CHF can be overcome by which of following drugs-</p> <ul style="list-style-type: none"> <li>a. Minoxidil</li> <li>b. Metoprolol</li> <li>c. Metolazone</li> <li>d. Milrinone</li> </ul>	1.5	CO5
Q17	<p>Mannitol is an-</p> <ul style="list-style-type: none"> <li>a. Purgative</li> <li>b. Antidiabetic</li> <li>c. Osmotic diuretic</li> <li>d. Antiemetic</li> </ul>	1.5	CO5
Q18	Write mechanism of action (briefly) of folate antagonist in cancer.	1.5	CO1
Q19	What are diagnosis for Glaucoma?	1.5	CO5
Q20	Name two antiepileptic drugs acting via sodium channels.	1.5	CO3
	<b>SECTION B</b>	(4Qx5M=20 Marks)	CO
	Short Answer Type Question (5 marks each)		
Q1	What are extrapyramidal side effects? Name the drugs, which can result in extrapyramidal side effects	3+2	CO5
Q2	Write a note on sign and symptoms of acute renal failure	5	CO1 CO2
Q3	Discuss the pathophysiology of rheumatoid arthritis.	5	CO3
Q4	Write a note on general prescribing guidelines for pediatric patients	5	CO2
	<b>SECTION C</b>	(2Qx15M=30 Marks)	CO

<p>Q1</p>	 <p>Stooped posture</p> <p>Masked facial expression</p> <p>Rigidity</p> <p>Forward tilt of trunk</p> <p>Flexed elbows &amp; wrists</p> <p>Reduced arm swinging</p> <p>Slightly flexed hips &amp; knees</p> <p>Trembling of extremities</p> <p>Shuffling, short-stepped gait</p> <p>©UWorld</p>	<p>The image shows symptoms of the disease/disorder.</p> <p>a. Identify the disease/disorder.</p> <p>b. Write the pathophysiology of disease/disorder.</p> <p>c. Classify the drugs used in treatment</p>	<p>(3+5+7)</p>	<p>C01 C02 C05</p>
<p>Q2</p>	<p>Discuss the types and pathophysiology of diabetes. Classify oral hypoglycemic agents with examples.</p>	<p>(7+8)</p>	<p>C01 C02</p>	
<p style="text-align: center;"><b>SECTION- D</b></p> <p><b>Long Answer type Question</b></p>		<p>(2Qx10M=20 Marks)</p>	<p>C0</p>	
<p>Q1</p>	<p>Classify antipsychotic drugs and discuss the pharmacology of atypical antipsychotics.</p>	<p>(5+5)</p>	<p>C01 C02</p>	
<p>Q2</p>	<p>Explain the pathogenesis of cancer. Classify the alkylating agents used as anticancer drugs.</p>	<p>(5+5)</p>	<p>C02 C04</p>	