Name:

Enrolment No:



UNIVERSITY OF PETROLEUM AND ENERGY STUDIES

End Semester Examination, May 2023

Course: Pharmacology-II Program: B.Sc. (Clinical Research) Course Code: HSCR2007

Semester: IV Time : 03 hrs. Max. Marks: 100

Instructions: Attempt all the questions

Q.No	Section A	(20Q x1.5M=	COs
	Short answer questions/ MCQ/T&F	30 Marks)	
Q	Attempt all the questions		СО
1.	The mechanism of action of Verapamil isa) β-blockerb) Calcium channel blockerb) Na/K ATPase inhibitord) Potassium channel opener	1.5	CO2
2.	Losartan is a	1.5	CO2
	a) Renin inhibitorb) ACE inhibitorc) Angiotensin receptor blockerd) Diuretic		
3.	Warfarin can be used in	1.5	CO4
	a) Clot formationb) Myocardial infarctiond) All of the above		
4.	The main side effects of anti-hypertensive could be	1.5	CO3
	a) Congestion b) Shock		
	c) Nausea d) Fluid retention		
5.	Histamines can initiate	1.5	CO5
	a) Headache b) Mood elevation		
	c) Allergy d) Vomiting		
6.	Which of the following is a non-selective COX inhibitor?	1.5	CO2
	a) Celecoxib b) Valdecoxib		
	c) Indomethacin d) All of the above		
7.	Dopamine can act as	1.5	CO1
	a) Prolactin releasing hormone b) Prolactin inhibitor		

	c) Thyroid releasing hormone d) Thyroid inhibitor		
8.	Which of the following is an action of parathyroid hormone?	1.5	CO4
	a) Bone resorption b) Hypercalcemia		
	c) Hypophosphatemia d) All of the above		
9.	Bioassay is done to find out	1.5	CO5
	a) Chemical composition b) Potency of a drug		
	c) Toxicity of a substance d) Physical status of a drug		
10.	Metformin treatment is given in case of	1.5	CO4
	a) Type 1 diabetes b) Type 2 diabetes		
	c) Both a & b d) None of the above		
11.	Growth hormone excess leads to	1.5	CO5
	a) Gigantism b) Acromegaly		
	c) Both d) None of the above		
12.	Name a drug used for Myocardial infarction.	1.5	CO4
13.	Define anticoagulant.	1.5	CO5
14.	Name a drug which acts as sodium channel blocker.	1.5	CO2
15.	Provide an example of anti-platelet agent.	1.5	CO1
16.	Provide the example of potassium sparing diuretic.	1.5	CO1
17.	Mention one use of 5HT3 receptor antagonist.	1.5	CO4
18.	Mention one contraindication of fibrinolytic agents.	1.5	CO3
19.	Name an immunosuppressant used as anti-rheumatic drug.	1.5	CO4
20.	Name the aldosterone receptor antagonist.	1.5	CO1
	Section B	(4Qx5M=20 Marks)	СО
5	Attempt all the questions		
1.	Classify calcium channel blockers and angiotensin receptor blockers with examples.	5	CO1

	Section D	(2Qx10M=20 Marks)	
	 Decrease his morning NPH insulin. Stop evening insulin and add a sulfonylurea at bedtime. Have him eat a larger lunch. Move his evening NPH insulin from supper time to bedtime. 		
	regimen?Decrease his morning regular insulin.		
	if he has something to eat. Which of the following changes would you recommend to his		
	120; 5 P.M. (before dinner), about 55; bedtime, about 115. When his blood sugar is about 55, he feels shaky and sweaty, but this goes away		
	Mr. Smith begins to notice this approximate pattern in his blood sugar measurements: 8 A.M. (fasting), about 110; noon (before lunch), about		
2.	George Smith is taking insulin for the first time. His physician prescribes 20 units NPH and 5 units regular insulin at breakfast, and 10 units NPH and 5 units regular insulin at dinner. After a few days,		CO4
	 What are your interpretations of the clinical findings and What treatment would you suggest? 		
	relaxation of deep tendon reflexes are among the common physical findings of hypothyroidism.		
	hypothyroidism. In addition, mild hypertension, goiter, and delayed		
	Normal range: T4: 5.0–12.0 mg/dL; T3: 20%; TSH 87.5 mU/L; Weight gain, constipation, and lethargy can all be symptoms of		
	Results of Laboratory Test of Sara- Total serum T4: 2.7 mg/dL, T3: 25–35% TSH: 0.3–5.0 mU/L		
	full, with an enlarged (1.5 to 2 times normal) thyroid gland; deep tendon reflexes display delayed relaxation.		
	is moderately overweight. Blood pressure is 152/92; pulse, 59; neck is		
	constipation, and lethargy. Significant findings upon physical examination include the following: At 5 feet, 4 inches and 169 lb, she		
1.	Sara, aged 38, complains to her family physician of weight gain,		CO4
Q	Attempt all the questions (Case studies)		СО
	Section C	(2Qx15M=30 Marks)	
4.	Write down the bioassay of Oxytocin.	5	CO5
3.	Mention the pharmacological actions of Leukotrienes and Bradykinin.	5	CO5
2.	Write down the mechanism of action and uses of Loop diuretics.	5	CO2, CO4

Q	Attempt all the questions		СО
1.	Write down the detail classification of anti-hyperlipidemic drugs with their mechanism of actions, adverse effects, and uses.	10	CO1,CO2, CO3, CO4
2.	Discuss the anterior pituitary hormones, their analogs, and therapeutic uses.	10	CO1, CO4