Name:

Enrolment No:



UPES

End Semester Examination, May 2024

Course: Pharmacology II **Program:** Integrated BMSc. Clinical Research **Course Code:** HSCR2018 Semester: IV Duration: 3 Hours Max. Marks: 100

Instructions: Attempt all questions

S.	Section A	Marks	COs
No.	Short answer questions/MCO/T&F		
	(200yl 5M 20 Morks)		
0.1	(20QX1.5WI= 50 MIAFKS)	1.7	001
QI	Bromocriptine is agonist of	1.5	COI
	a. Dopamine		
	b. Serotonin		
	c. Acetylcholine		
	d. Epinephrine		<u> </u>
Q2	Alteplase 1s	1.5	COI
	a. Anticoagulant		
	b. Antiplatelet		
	c. Fibrinolytic		
	e. Antifibrinolytic		
Q3	Which of the following hormones is inhibited by anti-diuretic	1.5	CO1
	drugs?		
	a. Aldosterone		
	b. Vasopressin		
	c. Cortisol		
	d. Insulin		
Q4	Which of the following is a synthetic derivative of testosterone	1.5	CO1
	used for androgen replacement therapy?		
	a. Estradiol		
	b. Nandrolone		
	c. Methyltestosterone		
	d. Drospirenone		
Q5	Which diuretic is often referred to as a "potassium-sparing"	1.5	CO1
	diuretic?		
	a. Spironolactone		
	b. Furosemide		
	c. Hydrochlorothiazide		
	d. Mannitol		

Q6	Which of the following class is commonly used as first-line	1.5	CO1
	therapy for acute episodes of angina?		
	a. Beta-blockers		
	b. Calcium channel blockers		
	c. Nitrates		
	d. ACE inhibitors		
Q7	Differentiate between classical and variant angina?	1.5	CO1
Q8	Differentiate between COX-1 and COX-2 enzyme.	1.5	CO1
Q9	What is the primary function of thyroid hormones?	1.5	CO2
	a. Regulate blood glucose levels		
	b. Control metabolism		
	c. Lower blood pressure		
	d. Increase heart rate		
Q10	What is the primary function of corticosteroids?	1.5	CO2
	a. Regulate electrolyte balance		
	b. Control blood pressure		
	c. Reduce inflammation		
	d. Stimulate bone growth		
Q11	Write the mechanism of aspirin as blood thinning agent.	1.5	CO2
Q12	An increase in heart rate and renin release seen in patients of	1.5	CO2
	CHF can be overcome by which of following drugs		
	a. Minoxidil		
	b. Metoprolol		
	c. Metolazone		
	d. Milrinone		
Q13	What is the primary mechanism of action of statins?	1.5	CO2
	a. Inhibition of cholesterol absorption in the intestine		
	b. Inhibition of HMG-CoA reductase enzyme		
	c. Activation of lipoprotein lipase		
	d. Inhibition of bile acid synthesis		~ ~ ~
Q14	Which hormone is primarily responsible for regulating blood	1.5	CO2
	calcium levels by stimulating bone resorption?		
	a. Parathormone		
	b. Calcitonin		
	c. Thyroid hormone		
017	d. Insulin		
Q15	Which drug category is used to induce uterine contractions?	1.5	CO3
	a. Androgens		
	b. Anti-gout drugs		
	c. Hematinics		
	d. Oxytocics		<i>~~~</i>
Q16	Cabergoline is used in	1.5	CO3

	a. Hyperprolactinemia		
	b. Acromegaly		
	c. Both A and B		
	d. Autism		
Q17	Citrullination is conversion of to citrulline.	1.5	CO3
	a. Threonine		
	b. Arginine		
	c. Methionine		
019	d. Tryptamine	15	CO4
QIS	which of the following bloassay method evaluates the presence	1.5	C04
	or absence of a biological effect?		
	a. Quantal bioassay		
	b. Graded bioassay		
	c. Fixed bioassay		
	d. Threshold bioassay		
Q19	A highway truck driver has profuse Rhinorrhea and sneezing.	1.5	CO5
	Which among the following drugs would you prescribe him?		
	a. Pheniramine		
	b. Promethazine		
	c. Dimenhydrinate		
	d. Cetirizine		
Q20	Which of the following drug is used in the therapy of shock to	1.5	CO5
	improve blood pressure?		
	a. Diuretics		
	b. Hematinics		
	c. Plasma volume expanders		
	d. Anti-arrhythmic drugs		
	Section B		
	(4Qx5M=20 Marks)		
01	Discuss the nathonhysiology symptoms and treatment of	5	CO5
V.	adrenal insufficiency	5	005
02	Write a pote on oral contracentives	5	CO2
Q^2	Notice history and discuss the turner (methods) of history	5	CO2
Q3	Define bloassay and discuss the types (methods) of bloassay.	5	COS
Q4	Elaborate the role of vitamin K in blood.	5	CO1
	Section C		
	(2Qx15M=30 Marks)		
Q1	Explain the mechanism of renin-angiotensin system inhibition	15	CO1,
	with example (drugs used) in cardiovascular system.		CO5
Q2	Discuss the types and pathophysiology of diabetes. Classify	(5+10)	CO1,
	(with example) oral hypoglycemic drugs based on mechanism		CO3
	of action.		

Section D			
	(2Qx10M=20 Marks)		
Q 1	Discuss in detail the physiological role and clinical uses of	10	CO2
	hormones released from posterior pituitary glands.		
	OR		
	Write detailed note on classification, mechanism of action, and		
	side effects of anti-hyperlipidemic drugs.		
Q2	a. Define and classify autocoids.	(5+5)	CO1,
	b. Write a note on non-steroidal anti-inflammatory drugs		CO3
	(NSAIDs).		
	OR		
	A 35-year female patient of inflammatory bowel disease was		
	treated with prednisolone 40 mg/day and mesalazine 800 mg		
	TDS. After 4 weeks, the symptoms subsided, and prednisolone		
	dose was tapered at the rate of 10 mg every 2 weeks. When she		CO5
	was taking 10 mg prednisolone/day, she met with a road-side		
	accident and suffered compound fracture of both bones of the		
	right leg. Internal fixation of the fracture and suturing of		
	wounds under general anesthesia is planned.		
	a. Whether any additional measure needs to be taken		
	during surgery in view of her corticosteroid therapy?		
	Justify your answer.		
	b. Does the prednisolone therapy need discontinuation or		
	any alteration in the postoperative period? Give reasons.		