UPES
UNIVERSITY WITH A PURPOSE

UNIVERSITY OF PETROLEUM AND ENERGY STUDIES

End Semester Examination, May 2022

Course: BSc Clinical Research **Semester:** IV

Program: Pharmacology-II **Duration:** 03 hrs.

Course Code: HSCR2007 **Max. Marks:** 100

Instructions:

All questions are compulsory

	SECTION A (Type the answers in test box)	**(20Q x1.5M= 30 Marks)**	**CO**
	MCQs, One or two line answers, True/False, Fill in the blanks	**1.5**	
Q1	Cough is an adverse effect with intake of a. Enalapril b. Prazocine c. Nifedipine d. Thiazide	**1.5**	**CO2**
Q2	Which of the following is renin inhibitor a. Benazepril b. Losartan c. Remikiren d. Imidapril	**1.5**	**CO1**
Q3	Nitroglycerine is effective as sublingual medication because a. Non ionic, highly lipid soluble b. Ionic, lipid soluble c. Ionic, less lipid soluble d. Non ionic, less lipid soluble	**1.5**	**CO2**
Q4	Which of the following anti-hypertensives was once used as an antipsychotic drug? a. Atenolol b. Reserpine c. Propranolol d. Clonidine	**1.5**	**CO5**
Q5	True about 1st generation antihistaminics- a. Non-sedative b. Used in motion sickness c. Have cholinergic side effects d. Can cause insomnia	1.5	**CO2**
Q6	NSAIDs causes gastric ulcer because- a. They inhibit COX-2 inhibition b. They inhibit mucus production c. They increase HCl production d. They delay gastric emptying	1.5	**CO2**
Q7	Treatment of choice for acute migraine is-	**1.5**	**CO4**

	a. Ergotamine b. Sumatriptan c. Propranolol d. paracetamol		
Q8	Fastest receptor mediated action is through- a. Cell membrane receptors b. Intrinsic ion channel c. Enzyme linked receptors d. Intracellular receptors	**1.5**	**CO1**
Q9	Cabergoline is used in a. Hyperprolactinema b. Acromegaly c. Both A and B d. None of the above	**1.5**	**CO1**
Q9	Fastest acting antithyroid drug is- a. Propylthiouracil b. Potessium iodide c. Carbimazole d. Cholestyramine	**1.5**	**CO1**
Q10	Death from lactic acidosis is diabetes mellitus is associated with therapy of- a. Metformin b. Tolbutamide c. Phenformin d. Glipizide	**1.5**	**CO5**
Q11	Which of the following glucocorticoids has no mineralocorticoid activity- a. Prednisolone b. Cortisol c. Hydrocortisone d. Triamcinolone	**1.5**	**CO3**
Q12	Clomiphene is a. Antiprogestin b. Antiestrogen c. Antiandrogen d. Antidiabetic	**1.5**	**CO1**
Q13	Write two key functions of prolactin.	**1.5**	**CO3**
Q14	Name the disease cause by Adrenal insufficiency	**1.5**	**CO4**
Q15	Write the mechanism of aspirin as blood thinning agent.	**1.5**	**CO2**
Q16	Which class of diuretics is usually considered safest?	**1.5**	**CO5**
Q17	Which class of diuretics is most potent?	**1.5**	**CO5**
Q18	Antagonist of heparin is a. Protamine b. Vitamin K c. Warfarin d. Fresh frozen plasma	**1.5**	**CO1**
Q19	38 years old patient with high risk of coronary artery disease risk has hypertension. Which of the following antihypertensive drug will be suitable as a first line treatment for this patient?	**1.5**	**CO5**

	a. ACE inhibitor b. Calcium channel blockers c. Beta adrenergic blockers d. Diuretics		
Q20	Define three-point bioassay.	**1.5**	**CO3**
	SECTION B **(Scan and upload)** Short Answer Type Question (5 marks each)	**(4Qx5M=20 Marks)**	**CO**
Q1	A new born has blood gas and hemodynamic problems because of patent (open) ductus arteriosus. Suggest the drug to be administered for closure of ductus with justification.	**5**	**CO5**
Q2	Write a note on oral contraceptives	**5**	**CO1** **CO2**
Q3	Describe bioassay of histamine	**5**	**CO3**
Q4	Discuss the hormones regulating plasma calcium level	**5**	**CO2**
	SECTION C **(Scan and upload)**	**(2Qx15M=30 Marks)**	**CO**
Q1	Explain the mechanism of renin-angiotensin system inhibition with example (drugs used) in cardiovascular system.	(15)	**CO1** **CO2** **CO5**
Q2	Illustrate the synthesis of thyroid hormones. Discuss the pharmacology of thyroid analogues and inhibitors.	(5+10)	**CO1** **CO2**
	SECTION- D **(Scan and upload)** a. Long Answer type Question	**(2Qx10M=20 Marks)**	**CO**
Q1	Classify and discuss the pharmacology of anticoagulants.	(5+5)	**CO1** **CO2**
Q2	Name the hormones secreted from posterior pituitary gland. Discuss the physiological role and clinical uses.	(2+5+3)	**CO2** **CO4**