GUJARAT TECHNOLOGICAL UNIVERSITY B.PHARM - SEMESTER- 5 EXAMINATION – SUMMER-2024

•	ect Code:BP502TP Date: 01/05/2024 ect Name: Pharmacology II	Date: 01/05/2024		
Time	: 02.30 p.m. to 5.30 p.m. Total Marks: 80 ctions:			
2. 3.	Question -1 is compulsory to attempt. Attempt any 04 questions from Question 2 to 7. Make suitable assumptions wherever necessary. Figures to the right indicate full marks.			
Q.1 I.	Answer the following questions. (1 mark each) Dapagliflozin inhibits:	16		
	A.SGLT-1 B. SGLT-2 C. DDPP-IV D. PPAR-gamma			
II.	is used in diagnosis of adrenal cortical insufficiency.A. TetracosactideB. ProtirelinC. CalcitriolD. Teriparatide			
III.	Identify selective progesterone receptor modulator (SPRM): A. Mifepristone B. Norethisterone C. Levonorgestrel D. Ulipristal			
IV.	Allopurinol inhibits and is useful in treatment of gout.A. xanthine oxidase, short-termC. xanthine oxidase, long-termD. uricase, long-term			
V.	Identify drug used in diabetic patients (with functional β -cells) and acting through inhibition of K_{ATP}^+ channel A. Sitagliptin B. Dapagliflozin C. Pioglitazone D. Glipizide			
VI.	Eplerenone acts by A. Inhibition of Na ⁺ -K ⁺ -2Cl ⁻ symport C Inhibition of Na ⁺ -Cl ⁻ symport D. Blocking Na channels			
VII.	Oral administration of levonorgestrel is effective as post-coital contraceptive, if taken withinof intercourse and repeated 12 hours later. A. 72 h B. 45h C. 30h D. 24h			
VIII.	Ranolazine acts by Inhibiting A. Na ⁺ channel and β receptors C. Calcium ChannelsB. Na ⁺ channel D. Potassium channels			
IX.	Following drug is a non-cardioselective β-blocker that has Class II & III anti- arrhythmic action:A. AmiodaroneB. Bretylium			
	C. Ibutelide D. Sotalol			
X.	Delayed after depolarization results fromA. Overload of potassium ionsC. Overload of calcium ionsD. Potassium channel deficiency			
XI.	Which of the following is an analgesic and antipyretic drug that lacks an anti- inflammatory action?A. AcetaminophenB. CelecoxibC. ColchicineD. Indomethacin			
XII.	Following drug acts via inhibiting intestinal absorption of cholesterol. A. Ezetimibe B. Nicotinic acid C. Colestipol D. Gemfibrozil			
XIII.	Insulin can be used in treatment of:b. Type 2 diabetes mellitusa. Type 1 diabetes mellitusb. Type 2 diabetes mellitusc. Hyperkalemiad. Poly cystic ovarian syndromeA. a onlyB. a,b and cC. a and bD. a,b and dD. a,b and d			

XIV.		Methaemoglobinemia is reported with the use ofantihypertensive drug.A. Sodium nitroprussideB. DiazoxideC. AmladininaD. Bronznalal	
XV.		C. AmlodipineD. PropranololCo-administration of ACE Inhibitors with digoxin in CHF patients willA. Synergistic effect with digoxinC. Increase toxicity of DigoxinD. PropranololB. Decrease toxicity of DigoxinD. All of the above	
XVI		given as an infusion to maintain patency of the ductus arteriosus in infantsA. PGE1B. PGF2 alphaC. PGE2.D. PGI2	5.
Q.2	(a)	Classify antihypertensive drugs. Write a note on AT1 receptor blockers.	6
	(b)	Discuss Pharmacological actions of glucocorticosteroids.	5
	(c)	Enlist drug treatments for CHF. Write a note on inodilators with suitable	5
		examples.	
Q.3	(a)	Classify diuretics according to potency of action. Discuss M/A and uses of	6
		potassium sparing diuretics giving suitable examples.	
	(b)	Explain synthesis and uses of Prostaglandins.	5
	(c)	Write a note on anticoagulants.	5
Q.4	(a)	Classify NSAIDs. Discuss Pharmacological actions of aspirin.	6
	(b)	Discuss use of the followings:	5
		1. Calcitonin 2. Parathormone 3. Vit D 4. Nitrates 5. Insulin	
	(c)	Write a note on Haematinics.	5
Q.5	(a)	Write a note on oral hypoglycaemic drugs.	6
	(b)	Enlist thyroid hormones and explain their physiological and pharmacological actions.	5
	(c)	Explain Drug therapy of Gout.	5
Q.6	(a)	Discuss mechanism, pharmacological actions and uses of amiodarone.	6
	(b)	Classify lipid lowering drugs. Write pharmacology of statins.	5
	(c)	Enlist fibrinolytics. Write a note on streptokinase.	5
Q.7	(a)	Define bioassay. Discuss Digitalis bioassay methods.	6
	(b)	Discuss actions and uses of oxytocin.	5
	(c)	Write a short note on oral contraceptives.	5
