Enrollment No.....

Bachelor of Pharmacy Fifth Semester Main Examination, Dec-2020 Medicinal Chemistry-II [BP501T]

Time: 3:00 Hrs Max Marks 75 Note: (i) All parts of the question paper are compulsory. (ii) All question of each part to be attempt at one place. Part-A Q.1 Multiple Choice Questions. $[1 \times 20 = 20]$ (i) Antihistamine drugs are antagonists for which receptor? (a) H1 receptor antagonist (b) H2 receptor antagonist (c) H3 receptor antagonist (d) H4 receptor antagonist Drugs that decrease the pressure of the lower esophageal sphincter are: (ii) (b) antibiotics (a) anticholinergics (c) antiarrhythmias (d) antidiuretics (iii) Which class of antibody is associated with an allergic reaction-(a) IgE (b) IgA (c) IgM (d) IgG (iv) Which of the following alkylating agents is employed for carbon & carbon alkylations (a) Ethylene (b) Propylene (c) Butylenes (d) All of the mentioned Cancer can be treated by -(v) (a) Surgery (b) Radiation, Immuno, Chemo therapy (c) 70% (d) 100% (vi) Busulphan is -(a) Cytotoxic Drug (b) Bifunctional alkylating agent (c) Approximate or similar to chlorambucil (d) All of the above (vii) What is obtained from petroleum-cracking operations? (a) Benzene (b) Aniline (c) Ethylene (d) All of the mentioned Which of the following enzyme is essential for the conversion of histidine to histamine? (viii) (a) Histidine amylase (b) Histidine hydrolase (c) Histidine decarboxylase (d) Histidine phosphorylase Alcohols are used in the manufacture of which type of ethers? (ix) (a) Isopropyl ether (b) Ethyl ether (c) Cellosolve (d) All of the mentioned

Which of the following histamine receptor increase permeability during

(x)

inflammation reaction?

	(a) H1 receptor (c) H3 receptor	(b) H2 receptor (d) H4 receptor	
(xi)	Diethylaniline is prepared from aniline an (a) Nitric acid (c) Sulphuric acid	d ethyl alcohol in presence of whice (b) Hydrochloric acid (d) All of the mentioned	ch acid?
(xii)	Which of the following histamine recepto (a) H1 receptor (c) H3 receptor		id?
(xiii)	Which type of alkyl ester in used for alkyl (a) Lower (c) Higher	ating amines? (b) Moderate (d) None of the mentioned	
(xiv)	Which of the following is the first antihist (a) Piperoxan (b) Ethylenediamine (c) Alkylamines (d) Tricyclics	amine?	
(xv)	Tick the anticancer drug belonging to inor (a) Styrene oxides (c) Alkylmagnesium halide	ganic metal complexes:- (b) Trialkyl phosphate (d) All of the mentioned	
(xvi)	The main reason to prescribe a proton pur (a) low back pain (c) diarrhea	np inhibitor (PPI) is for the treatme (b) nausea and vomiting (d) indeterminate chest pain	ent of
(xvii)	Which of the following drugs has the sma (a) Chloroquine (c) Imipramine	llest volume of distribution? (b) Verapamil (d) Warfarin	
(xviii)	A statistically significant variable with the (a) Cardiovascular drugs (b) Number of oral products taken daily (c) Vitamin/mineral/supplement use (d) Anticholinergic burden	use of PPI and H2 receptor block	ers was:
(xix)	Which of the following is not a major risk (a) Family history (c) Obesity	factor for atherosclerosis? (b) Cigarette smoking (d) Male gender	
(xx)	Long-term use of PPIs can delay the diagram (a) Hepatitis (c) Gastrinomas	nosis of: (b) Anemia (d) Dementia	
	nswer questions Attempt any Seven questions. Each question		5 = 35]

Write note on -

Q.1	Diuretics		
Q.2	Vasodilators		
Q.3	H1 Antagonist		
Q.4	H2 Antagonist		
Q.5	Antibiotics		
Q.6	Antihypertensive agents		
Q.7	Anticoagulants		
Q.8	Anti-arrhythmic Drugs		
	nswer questions.	Part-C	$[10 \times 2 = 20]$
	Attempt any Two questions. Each quest		
Q.1	Describe antihistaminic agents with it	ts classification.	
Q.2	Describe gastric proton pump inhibito	or.	
Q.3	Explain antiarrhythmic agents with cl	lassification.	Enrollment No
	R	achelor of Pharmacy	Linoinnent No
		acheior of Fharmacy er Main Examination, De	c-2020
		rial Pharmacy-I [BP502T]	
Time:	3:00 Hrs	Ma	x Marks 75
Note:	(i) All parts of the question pape		
	(ii) All question of each part to l		
Q.1 Mu	altiple Choice Questions.	Part-A [1x20 = 20 N	Marks]
(i)	Other than tablet hardness, which me (a) Thickness (c) Friability	ethod is used to measure the tab (b) Weight variation (d) Organoleptic proper	_
(ii)	Use of talcum powder in tablet form (a) Lubricant (c) Binder	ulation as- (b) Disintegrating agent (d) Adhasive	
(iii)	How many tablets require for content (a) 10 (c) 30	t uniformity test- (b) 20 (d) 40	
(iv) constan	The dissolution flask is cylindrical we temperature both- (a) 37±0.5°C (c) 37±1.5 °C	(b) 37±1.0 °C (d) 37±2.0 °C	s maintain atby the

(v)	Excessive moisture may be responsible for (a) Capping (c) Picking	(b) Lamination (d) Sticking
(vi)	Which of following is commonly used for (a) Methyl cellulose (c) Hydroxyl propyl cellulose	direct compression- (b) HPMC (d) All
(vii)	The mechanical strength of the tablet can b (a) Hardness and bending strength (b) Fracture resistance (c) Crushing strength (d) All	e described as –
(viii)	Drug absorption is better with- (a) Insoluble drugs (c) Powder	(b) Lipid soluble drugs (d) Ionized drugs
(ix)	Capsule is made up of - (a) Vegetable (c) Dioscorea	(b) Gelatin (d) None
(x)	Soft gelatine capsule used for- (a) Powders (c) Liquids	(b) Granules (d) All
(xi)	A high efficiency air filter (a) HEPA filter (c) Final filter	(b) Diluent (d) Web filter
(xii)	Movement of particles in a solution through (a) Filter (c) Flow rate	permeable membranes (b) Dialysis (d) Anhydrous
(xiii)	Methods that maintain sterility products (a) Aseptic technique (c) A clean person	(b) Bleaching(d) None of these
(xiv)	The resulting solution when a drug is added (a) Admixture (c) Addtive	d to a parenteral solution (b) Solution (d) Juice
(xv)	Gelatin is a (a) Fat (c) Carbohydrate	(b) Alkaloids (d) Protein
(xvi)	Which is the type of Borosilicate Glass (a) Type I (c) Type III	(b) Type II (d) Type IV
(xvii)	Which of the following are widely used and (a) Mercurial (c) Both	excellent preservatives (b) Quaternary ammonium compounds (d) Acidic

(xiii)	Titanium dioxide commonly used in (a) Vanishing cream (c) Ophthalmic Cream	(b) Sunscreen Cream (d) Aqueous calamine cre	eam.
(xix)	Aerosol is used for the formation of - (a) Smoke (c) Liquid form	(b) Solid form (d) Emulsion	
(xx)	Which one of the following is not a route (a) Intravenous (IV) (c) Topical	of administration? (b) Oral (d) Dissolution	
	answer questions Attempt any two questions. Each question		2 = 20 Marks]
Q.1	Explain the excipient and formulation of	tablet.	
Q.2	Explain in details about pharmaceuticals	aerosols.	
Q.3	Write the formulation and manufacturing consideration of syrup, elixir, suspensions and emulsion		
	answer questions. Attempt seven questions. Each question	-	35 Marks]
Q.1	Define pre-formulation studies and write	its objectives	
Q.2	Explain the material used in pharmaceutical preparation.		
Q.3	Write the evaluation parameter of tablet.		
Q.4	Define cold cream and vanishing cream and write their preparation formula as Per IP.		
Q.5	Write the quality control test of parenteral product.		
Q.6	Write difference between hard and soft gelatin capsules.		
Q.7	Define tablet. Write its advantage and dis	sadvantage.	
Q.8	Write the legal and official requirements	for containers.	
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Bachelor of Pharmacy Fifth Semester Main Examination, Dec-2020 Pharmacology-II [BP503T]

Time: 3:00 Hrs Max Marks 75

Note: (i) All parts of the question paper are compulsory.

(ii) All question of each part to be attempt at one place.

Part-A

Q.1	Multiple Choice Questions.	[1x20 = 20 Marks]
(i)	Dopamine is (a) Both alpha and beta agonist (b) Beta agonist (c) Alfa agonist (d) Beta antagonist	
(ii)	Digoxin is contraindicated in (a) Arterial fibrillation (b) Obstructive hypertrophic cardiomyopath (c) CHF (d) Atrial flutter	ny
(iii)	Drug of Choice in Ventricular tachycardia (a) Pethidine (c) Propranolol	(b) Digoxin (d) Lignocaine
(iv)	Which Drug has a high first pass effect ? (a) Amiodarone (c) Verapamil	(b) Phenytoin(d) Disopyramide
(v)	Quinidine is contraindicated in (a) Atrial Fibrillation (c) Digitalis toxicity	(b) Atrial Flutter(d) Supraventricular tachycardia
(vi)	Drug of choice for digitalis induced arrhyth (a) Quinidine (c) Encainide	mia is- (b) Procainamide (d) Phenytoin
(vii)	Ant-arrhythmic drugs causing "torsades de (a) Quinidine (c) Procainamide	pointes" are all except (b) Disopyramide (d) Lignocaine
(viii)	Calcium Channel blocker with the maximum (a) Verapamil (c) Diltiazem	m peripheral effect is (b) Nifedipine (d) Gallapamil
(ix)	Calcium channel blocker with maximum et (a) Verapamil (c) Diitiazem	ffect on conduction in heart is (b) Nifedipine (d) Nimodipine
(x)	Following are the side effect of Nimodipine (a) Hypotension (c) Headache	e , EXCEPT (b) Flushing (d) Severe constipation
(xi)	Which of the following relieves angina-pecta (a) Phentolamine (c) Propranolol	toris by decreasing myocardial work, but may precipitate CHF (b) Phenoxybenzamine (e) Atropine

(xii)	Verapamil increases toxicity of all, EXCER		
	(a) Digoxin(c) Benzodiazepines	(b) Propranolol(d) NSAID'S	
(xiii)	The longest acting nitrate is		
	(a) Glyceryl trinitrate(c) Isosorbide mononitrate	(b) Amyl nitrate(d) Isosorbide dini	trate
(xiv)	The drug of choice in hypertrophic cardion	nyopathy is	
	(a) Propranolol	(b) Verapamil.	
	(c) Digoxin	(d) Amiodarone	
(xv)	All of the following are example of Calcium		EXCEPT
	(a) Nifedipine	(b) Diltiazem	
	(c) Pirenzepine	(d) Verapamil	
(xvi)	The commonest side effect of oral nitrates		
	(a) Bradycardia	(b) Headache	
	(c) Hypotension	(d) Oral Ulceration	1
(xvii)	Which is true about enalpril as compared to (a) Lesser potent	o captopril	
	(b) Quicker onset		
	(c) Longer acting		
	(d) More adverse effect		
(xviii)	Chemically paracetamol is		
	(a) N-acetyl-p-aminophenol	(b) Chloroquine	
	(c) Acetyl salicylic acid	(d) Acetophen	
(xix)	The following drugs are used in acute gout	, EXCEPT	
	(a) Allopurinol	(b) Naproxen	
	(c) Corticosteroids	(d) Colchicine	
(x)	All of the following are thiazide diuretics, l		
	(a) Bumetanide	(b) Benzthiazide	
	(c) Indapamide	(d) Metolazone	
		Part-B	
	nswer questions		[10x2 = 20 Marks]
Note:	Attempt any two questions. Each question	carries 10 marks.	
Q.1	Explain in detail about NSAID'S with class	sification.	
Q.2	Write in detail about Anti-gout drug with o	classification.	
Q.3	Write in detail about Estrogens, progestero	ne and contraceptive	S.
		Part-C	
	nswer questions. Attempt seven questions. Each question ca	rries 5 marks.	[7x5 = 35 Marks]
Q.1	Write classification of Anti-hypertensive de	rugs.	
Q.2	Write short note on Thiazide Diuretics.		

Write short note on Aspirin. 0.3 Q.4 Explain ACE Inhibitors with one example. 0.5 Write short note on Verapamil, its mechanism of action, uses and side effects. Q.6 Write a note on Angina pectoris. Q.7 Write in detail about Acetazolamide drug. Q.8 Give a short note of drugs used in CHF. Enrollment No..... **Bachelor of Pharmacy** Fifth Semester Main Examination, Dec-2020 Pharmacognosy & Phytochemistry-II [BP504T] Max Marks 75 **Time: 3:00 Hrs** Note: (i) All parts of the question paper are compulsory. (ii) All question of each part to be attempt at one place. Part-A Q.1 Multiple choice questions. [1x20 = 20 Marks]Which of the following cannot be used as an adsorbent in Column adsorption chromatography? (i) (a) Magnesium oxide (b) Silica gel (c) Activated alumina (d) Potassium permanganate Which of the following types of chromatography involves the process, where the mobile phase moves (ii) through the stationary phase by the influence of gravity or capillary action? (a) Column Chromatography (b) High Pressure Liquid Chromatography (c) Gas Chromatography (d) Planar Chromatography In which of the following type of paper, chromatography does the mobile phase move horizontally over a (iii) circular sheet of paper? (a) Ascending paper chromatography (b) Descending paper chromatography (c) Radial paper chromatography (d) Ascending – descending chromatography (iv) Liquid chromatography can be performed in which of the following ways? (a) Only in columns (b) Only on plane surfaces (c) Either in columns or on plane surfaces (d) Neither in columns nor on plane surfaces What is the botanical name of senna? (v) (b) Rudbeckiahirta (a) Cassia senna L. (c) Physalisfranchetti (d) Basellarubra

(vi)

Senna is used to treat

	(a) Diabetes	(b) Cancer		
	(c) Constipation	(d) All of the above		
(vii)	General tests for the identification	on of sterol and triterpenoid glycosides in a drug sample		
` '	(a) Borntrager's test	(b) Antimony trichloride test		
	(c) Tetranitro methane test	(d) Both b and c		
(viii)	Salkowaski test used for the idea	ntification of which glycoside moiety in a drug sample?		
` ,	(a) Sterol glycoside	(b) Anthraquinone glycoside		
	(c) Cynophoric glycoside	(d) Flavonoid glycoside		
(ix)	Legal test used for the identification	ation of which glycoside:		
	(a) Anthraquinone glycoside	(b) Coumarine glycoside		
	(c) Cardiac glycoside	(d) All		
(x)	Modified Borntrager's test used	in the identification of which glycoside?		
	(a) Cardiac glycoside	(b) Flavonoid glycoside		
	(c) Saponin glycoside	(d) Anthraquinone glycoside		
(xi)	Sodium picrate test used in the identification of which glycoside?			
	(a) Cynophoric glycoside	(b) Cynogenic glycoside		
	(c) Saponin glycoside	(d) Anthraquinone glycoside		
(xii)	In salkowaski test which colour ring appear at the junction of two liquid mixed?			
	(a) Yellow	(b) Red		
	(c) Pink	(d) Both a and b		
(xiii)	What is the botanical name of co			
	(a) Pyrus malus	(b) Ribesnigrum		
	(c) Solanum melongena	(d) Coffea Arabica Linn		
(xiv)	What is the biological source of			
	(a) Root	(b) Seed		
	(c) Leaves	(d) Bark		
(xv)	Coffee belongs to which family	?		
	(a) Loganiaceae	(b) Rubiaceae		
	(c) Solaneacea	(d) Asteraceae		
(xvi)	The interaction of Tropine and t	ropic acid produces?		
	(a) Atropin	(b) Carbachol		
	(c) Procyclidine	(d) Doxacurium		
(xvii)	The type of ring system found in	n Atropin?		
	(a) Benzene	(b) Napthalene		
	(c) Imidazole	(d) None of the above		
(xviii)	Curcumin belongs to which fam	-		
	(a) Loganiaceae	(b) Rubiaceae		
	(c) Solaneacea	(d) Zingiberaceae		

(xix)	Forskolin belongs to which family	?	
	(a) Lamiaceae	(b) Rubiaceae	
	(c) Solaneacea	(d) Zingiberaceae	
(x)	Reserpine belongs to which family	7?	
	(a) Lamiaceae	(b) Rubiaceae	
	(c) Apocynaceae	(d) Solaneacea	
_		Part-B	
	nswer questions Attempt any two questions. Each que	stion carries 10 marks.	[10x2 = 20 Marks]
Q.1	Describe source, cultivation, collesubstitute of Fennel.	ection, macroscopy, microscop	y, constituents, uses, adulterants and
Q.2	Write source, cultivation, collection substitute of Digitalis.	n, macroscopy and microscopy	y, constituents, uses, adulterants and
Q.3	Explain different metabolic pathwa	ys in higher plant and what are	e secondary metabolites.
		Part-C	
	nswer questions. Attempt any seven questions. Each q	uestion carries 5 marks.	[7x5 = 35 Marks]
Q.1	Collection methods for bark crude	drugs.	
Q.2	Collection methods of Opium.		
Q.3	Macroscopy of Vinca.		
Q.4	Microscopy study of Nuxvomica.		
Q.5	Microscopical evaluation.		
Q.6	Preparation of Silk.		
Q.7	Glycoalkaloids type of crude drug.		
Q.8	Requirements for cultivating Cinna	imon.	
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		Bachelor of Pharmacy	
	Fifth Seme	ster Main Examination,	Dec-2020
	Pharmac	eutical Jurisprudence [I	3P505T]
	3:00 Hrs		Max Marks 75
Note:	(i) All parts of the question pa		
	(ii) All question of each part to	be attempt at one place.	
		Part-A	

[1x20 = 20 Marks]

- Q.1 Multiple Choice Questions.
- (i) License issue for bonded and non-bonded laboratory by
- (a) Central Government
 - (b) State Government
 - (c) Excise commissioner
 - (d) Director of health services

	(a) 15 (c) 20	(b) 10 (d) 25		
(iii)	The president of PCI is (a) Elected by its member			
	(b) Nominated by health see (c) Elected by registered ph	cretory, Government of India parmacist		
	(d) None of above			
(iv)	Who was the first chairman (a) B. Mukharjee	of Pharmaceutical Enquiry Committee (b) S. S. Bhatiya		
	(c) Joseph Bhore	(d) R. D. Dalal		
(v)	Punishment for contraventi	-		
	(a) 10-20 years imprisonme			
	(b) 5 years imprisonment ar			
	(c) 2 years imprisonment ar(d) None of above.	nd 50 thousand rupees fine		
(vi)	Medicinal and Toilet prepar	ration act 1955 is effectively implemented throughout India from		
	(a) 2nd May 1956			
	(b) 5th June 1957			
	(c) 2nd April 1952			
	(d) 2nd April 1957			
(vii)	The pharmacy bill was intro	oduced by government of India in		
	(a) 1940	(b) 1927		
	(c) 1947	(d) 1847		
(viii)	Penalties for Offences like Manufacture of any spurious drug			
	(a) 1-3 year imprisonment and Rs. 5000 fine(b) 1 year imprisonment & Rs.2000 Fine			
	(c) Imprisonment up to 3 months & Rs.500 Fine			
		onths & Rs. 1000 Fine on subsequent conviction		
(ix)	act 1940?	r and growth of new hair type of disease cover in which schedule as per D & C		
	(a) Schedule J	(b) Schedule K		
	(c) Schedule E1	(d) Schedule Y		
(x)	Central register maintained			
	(a) Central council	(b) M. C. I.		
	(c) AICTE	(d) State council		
(xi)	In elected member of PCI s	· · · · · · · · · · · · · · · · · · ·		
	(a) Central council	(b) U.G.C.		
	(c) AICTE	(d) All of above		
(xii)	Minimum training required	•		
	(a) 100 hours	(b) 500 hours		
	(c) 300 hours	(d) 800 hours		

NDPS consultative committee consist of maximum of..... members.

(ii)

(xiii)	Pharmacist in relation trade (a) Should charge fair price (b) Should not attract customer by (c) Always purchase medicament f (d) All of above		
(xiv)	Pharmacist in relation to his profes (a) Pharmacist-vigilance (b) Law-abiding citizen (c) Decoram and propriety (d) All of above	ssion	
(xv)	The magic remedies act at was pas (a) 1954 (c) 1920	sed in the year (b) 1944 (d) 1935	
(xvi)	Cure for cancer in an example of the (a) Prohibited (c) Bonafide	ne following advertisements (b) Exempted (d) Permitted	
(xvii)	Penalty for use of government anal (a) 500 (c) 1000	lyst report for advertisement is (b) 5000 (d) None	
(xviii)	MTP act was passed in which year (a) 1971 (c) 1975	(b) 1985 (d) 1945	
(xix)	If any person doing MTP is not RM (a) 2-7 year (c) 5-10 year	MP can punished with imprison (b) 1 year (d) None of above	ment of
(xx)	The application to import drug as p (a) Form 12A (c) Form 12B	oart of bonafide luggage is mad (b) Form 12 (d) Form 26	e to the licensing authority in
	nswer questions attempt any two questions. Each ques		[2x10 = 20 Marks]
Q. 1	Write detail about Legal Code of P	harmaceutical ethics.	
Q. 2	Detail about National list of Essential Medicines (NLEM).		
Q. 3	Detail about Labelling and Packing	g of Drug and schedule.	
	nswer questions. attempt seven questions. Each questions.	Part-C on carries 5 marks.	[5x7 = 35 Marks]

- Q. 1 Write an exhaustive note on Pharmacy Act 1948.
- Q. 2 Describe schedule M in detail.
- Q. 3 Give the objectives and definitions of Institutional Animal Ethics Committee.
- Q. 4 Give in detail medical termination of pregnancy act.
- Q. 5 Write in detail about import of the drug and classes of the drug prohibited from import.
- Q. 6 Give CPCSEA guidelines for breeding and stocking of animals.
- Q. 7 Explain the constitution and functions of narcotic and psychotropic consultative committee.
- Q. 8 Write short notes on any three.
 - (a) IPR
 - (b) Patent
 - (c) Schedule G
 - (d) DPCO