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

Time:	3:00 Hrs	Max M	arks 75	
Note :	(i) All parts of the question paper are			
	(ii) All question of each part to be att	empt at one place.		
0.434		Part-A		
-	ltiple Choice Questions.		1×20=20]	
(i)	 Antihistamine drugs are antagonists for whi (a) H1 receptor antagonist (b) H2 receptor antagonist (c) H3 receptor antagonist (d) H4 receptor antagonist 	ch receptor?		
(ii)	Drugs that decrease the pressure of the low	er esophageal sphincter are:		
	(a) anticholinergics	(b) antibiotics		
	(c) antiarrhythmias	(d) antidiuretics		
(iii)	Which class of antibody is associated with a	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		
(v)	Cancer can be treated by -			
	(a) Surgery	(b) Radiation, Immuno, Chem	o 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	-		
	(a) Benzene(c) Ethylene	(b) Aniline(d) All of the mentioned		
	(c) Emplene	(d) The of the mentioned		
(viii)	Which of the following enzyme is essential		o histamine?	
	(a) Histidine amylase	(b) Histidine hydrolase		
	(c) Histidine decarboxylase	(d) Histidine phosphorylase		
(ix)	Alcohols are used in the manufacture of wh			
	(a) Isopropyl ether	(b) Ethyl ether		
	(c) Cellosolve	(d) All of the mentioned		
(x)	Which of the following histamine receptor	increase permeability during	inflammation reaction?	
	- 1			

	(a) H1 receptor(c) H3 receptor	(b) H2 receptor(d) H4 receptor	
(xi)	Diethylaniline is prepared from aniline and (a) Nitric acid (c) Sulphuric acid	ethyl alcohol in presence of (b) Hydrochloric acid (d) All of the mentioned	which acid?
(xii)	Which of the following histamine receptor i (a) H1 receptor (c) H3 receptor	ncreases the release of gastr (b) H2 receptor (d) H4 receptor	ic acid?
(xiii)	Which type of alkyl ester in used for alkylat (a) Lower (c) Higher	ing amines? (b) Moderate (d) None of the mentioned	
(xiv)	 Which of the following is the first antihistar (a) Piperoxan (b) Ethylenediamine (c) Alkylamines (d) Tricyclics 	nine?	
(xv)	Tick the anticancer drug belonging to inorg (a) Styrene oxides (c) Alkylmagnesium halide	anic metal complexes:- (b) Trialkyl phosphate (d) All of the mentioned	
(xvi)	The main reason to prescribe a proton pump (a) low back pain (c) diarrhea	inhibitor (PPI) is for the tree(b) nausea and vomiting(d) indeterminate chest pair	
(xvii)	Which of the following drugs has the smalle (a) Chloroquine (c) Imipramine	est volume of distribution? (b) Verapamil (d) Warfarin	
(xviii)	A statistically significant variable with the u (a) Cardiovascular drugs (b) Number of oral products taken daily (c) Vitamin/mineral/supplement use (d) Anticholinergic burden	use of PPI and H2 receptor b	olockers was:
(xix)	Which of the following is not a major risk f (a) Family history (c) Obesity	actor for atherosclerosis? (b) Cigarette smoking (d) Male gender	
(xx)	Long-term use of PPIs can delay the diagno (a) Hepatitis (c) Gastrinomas	sis of: (b) Anemia (d) Dementia	
Short a	nswer questions	Part-B	[7×5 = 35]
			L1

Note : Attempt any Seven questions. Each question carries 5 marks.

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		
		Part-C	
	swer questions. .ttempt any Two questions. Each o		$10 \times 2 = 20$]
Q.1	Describe antihistaminic agents w	ith its classification.	
Q.2	Describe gastric proton pump inh	nibitor.	
Q.3	Explain antiarrhythmic agents with	th classification.	
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	Fifth Sem	Bachelor of Pharmacy nester Main Examination, Dec-2	020
		ustrial Pharmacy-I [BP502T]	
	3:00 Hrs		<u> 1arks 75</u>
Note :	(i) All parts of the question p(ii) All question of each part		
	() 1	Part-A	
Q.1 Mu	ltiple Choice Questions.	[1x20 = 20 Mar]	ks]
(i)	Other than tablet hardness, whic	h method is used to measure the tablet	strength-
	(a) Thickness(c) Friability	(b) Weight variation(d) Organoleptic properties	
(ii)	Use of talcum powder in tablet f		
(11)	(a) Lubricant	(b) Disintegrating agent	
	(c) Binder	(d) Adhasive	
(iii)	How many tablets require for co (a) 10	•	
	(a) 10 (c) 30	(b) 20 (d) 40	
(iv)		cal with a hemispherical bottom. It is n	naintain atby the
constant	t temperature both- (a) $37\pm0.5^{\circ}C$	(b) 37±1.0 °C	
	(c) 37 ± 1.5 °C	(d) 37 ± 2.0 °C	

(v)	Excessive moisture may be responsible fo (a) Capping (c) Picking	r- (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 (a) Hardness and bending strength (b) Fracture resistance (c) Crushing strength (d) All	be 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 throug (a) Filter (c) Flow rate	h 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 adde (a) Admixture (c) Addtive	ed 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	d excellent preservatives (b) Quaternary ammonium compounds (d) Acidic

(xiii)	Titanium dioxide commonly used in	
	(a) Vanishing cream	(b) Sunscreen Cream
	(c) Ophthalmic Cream	(d) Aqueous calamine cream.

(xix)	Aerosol is used for the formation of (a) Smoke (c) Liquid form	of - (b) Solid form (d) Emulsion
(xx)	Which one of the following is not (a) Intravenous (IV)	a route of administration? (b) Oral

Part-B

(d) Dissolution

[10x2 = 20 Marks]

[5x7 = 35 Marks]

Long answer questions Note : Attempt any two questions. Each question carries 10 marks.

Q.1 Explain the excipient and formulation of tablet.

(c) Topical

- Q.2 Explain in details about pharmaceuticals aerosols.
- Q.3 Write the formulation and manufacturing consideration of syrup, elixir, suspensions and emulsion

Part-C

Short answer questions. Note : Attempt seven questions. Each question carries 5 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 disadvantage.
- Q.8 Write the legal and official requirements for containers.

Enrollment No.....

Bachelor of Pharmacy Fifth Semester Main Examination, Dec-2020 Pharmacology-II [BP503T] 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 atte	empt at one place.
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	(ii) All question of each part to be att	tempt 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 cardiomyopat (c) CHF (d) Atrial flutter	hy
(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	nmia is- (b) Procainamide (d) Phenytoin
(vii)	Ant-arrhythmic drugs causing "torsades de	pointes" are all except
	(a) Quinidine(c) Procainamide	(b) Disopyramide (d) Lignocaine
(viii)	Calcium Channel blocker with the maximu (a) Verapamil (c) Diltiazem	um peripheral effect is (b) Nifedipine (d) Gallapamil
(ix)	Calcium channel blocker with maximum e (a) Verapamil (c) Diitiazem	effect 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-pec (a) Phentolamine (c) Propranolol	ctoris by decreasing myocardial work, but may precipitate CHF (b) Phenoxybenzamine (e) Atropine

(xii)	Verapamil increases toxicity of all, EXCEP (a) Digoxin (c) Benzodiazepines	T (b) Propranolol (d) NSAID'S	
(xiii)	The longest acting nitrate is (a) Glyceryl trinitrate (c) Isosorbide mononitrate	(b) Amyl nitrate (d) Isosorbide dinit	trate
(xiv)	The drug of choice in hypertrophic cardiom (a) Propranolol (c) Digoxin	yopathy is (b) Verapamil. (d) Amiodarone	
(xv)	All of the following are example of Calcium (a) Nifedipine (c) Pirenzepine	n channel Blockers, (b) Diltiazem (d) Verapamil	EXCEPT
(xvi)	The commonest side effect of oral nitrates a (a) Bradycardia (c) Hypotension	re all EXEPT (b) Headache (d) Oral Ulceration	1
(xvii)	 Which is true about enalpril as compared to (a) Lesser potent (b) Quicker onset (c) Longer acting (d) More adverse effect 	captopril	
(xviii)	Chemically paracetamol is (a) N-acetyl-p-aminophenol (c) Acetyl salicylic acid	(b) Chloroquine (d) Acetophen	
(xix)	The following drugs are used in acute gout, (a) Allopurinol (c) Corticosteroids	EXCEPT (b) Naproxen (d) Colchicine	
(x)	All of the following are thiazide diuretics, E (a) Bumetanide (c) Indapamide	EXCEPT (b) Benzthiazide (d) Metolazone	
	nswer questions Attempt any two questions. Each question	Part-B carries 10 marks.	[10x2 = 20 Marks]
Q.1	Explain in detail about NSAID'S with class	ification.	
Q.2	Write in detail about Anti-gout drug with classification.		
Q.3	Write in detail about Estrogens, progesteror	ne and contraceptives	s.

Part-C

Short answer questions. Note : Attempt seven questions. Each question carries 5 marks.

[7x5 = 35 Marks]

- Q.1 Write classification of Anti-hypertensive drugs.
- Q.2 Write short note on Thiazide Diuretics.

- Q.3 Write short note on Aspirin.
- Q.4 Explain ACE Inhibitors with one example.
- Q.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]

Time: 3:00 Hrs

Q.1 Multiple choice questions.

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

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

Part-A

[1x20 = 20 Marks]

Max Marks 75

- (i) Which of the following cannot be used as an adsorbent in Column adsorption chromatography?
 (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 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
- (iii) In which of the following type of paper, chromatography does the mobile phase move horizontally over a 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
- (v) What is the botanical name of senna?
 (a) Cassia senna L.
 (b) Rudbeckiahirta
 (c) Physalisfranchetti
 (d) Basellarubra
- (vi) Senna is used to treat

	(a) Diabetes	(b) Cancer	
	(c) Constipation	(d) All of the above	
(vii)		n 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)		tification 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 identifica	tion of which alwasside:	
(1X)	(a) Anthraquinone glycoside	(b) Coumarine glycoside	
	(c) Cardiac glycoside	(d) All	
	(c) Cardiac grycoside	(u) 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 id	lentification 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 t			
	(a) Yellow	(b) Red	
	(c) Pink	(d) Both a and b	
(xiii) What is the botanical name of coffee?		ffee?	
()	(a) Pyrus malus	(b) Ribesnigrum	
	(c) Solanum melongena	(d) Coffea Arabica Linn	
(xiv) What is the biological source of coffee?		coffee?	
	(a) Root	(b) Seed	
	(c) Leaves	(d) Bark	
<i>.</i>			
(xv)	Coffee belongs to which family?		
	(a) Loganiaceae	(b) Rubiaceae	
	(c) Solaneacea	(d) Asteraceae	
(xvi)	The interaction of Troping and tr	rania agid produces?	
(XVI)	The interaction of Tropine and tr	(b) Carbachol	
	(a) Atropin(c) Procyclidine	(d) Doxacurium	
	(c) Procyclidille	(d) Doxacultum	
(xvii)	The type of ring system found in	Atropin?	
. ,	(a) Benzene	(b) Napthalene	
	(c) Imidazole	(d) None of the above	
	× /		
(xviii)	Curcumin belongs to which fami	ly?	
	(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	ch family?	
	(a) Lamiacana	(b) Pubiacana	

(a) Lamiaceae	(b) Rubiaceae
(c) Apocynaceae	(d) Solaneacea

Part-B

[10x2 = 20 Marks]

Long answer questions Note : Attempt any two questions. Each question carries 10 marks.

- Q.1 Describe source, cultivation, collection, macroscopy, microscopy, constituents, uses, adulterants and substitute ofFennel.
- Q.2 Write source, cultivation, collection, macroscopy and microscopy, constituents, uses, adulterants and substitute of Digitalis.
- Q.3 Explain different metabolic pathways in higher plant and what are secondary metabolites.

Part-C

[7x5 = 35 Marks]

[1x20 = 20 Marks]

Note : Attempt any seven questions. Each question carries 5 marks.

- Q.1 Collection methods for bark crude drugs.
- Q.2 Collection methods of Opium.
- Q.3 Macroscopy of Vinca.

Short answer questions.

- 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 Cinnamon.

Enrollment No.....

Bachelor of Pharmacy

Fifth Semester Main Examination, Dec-2020

Pharmaceutical Jurisprudence [BP505T]

<u>Time: 3:00 Hrs</u>	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.

(i) License issue for bonded and non-bonded laboratory by

- (a) Central Government
- (b) State Government
- (c) Excise commissioner
- (d) Director of health services

(ii)	NDPS consultative committee consist of maximum of members.			
	(a) 15	(b) 10		
	(c) 20	(d) 25		
(iii)	The president of PCI is			
(III)	(a) Elected by its member			
	(b) Nominated by health secretory, Government of India			
	(c) Elected by registered pharma			
	(d) None of above	-151		
	(d) None of above			
(iv)	Who was the first chairman of Pharmaceutical Enquiry Committee			
	(a) B. Mukharjee	(b) S. S. Bhatiya		
	(c) Joseph Bhore	(d) R. D. Dalal		
(v)	Punishment for contravention in relation to Ganja			
	(a) 10-20 years imprisonment and 1-2 lakh ruppes fine			
	(b) 5 years imprisonment and 50 thousand rupees fine.			
	(c) 2 years imprisonment and 50	-		
	(d) None of above.	hiousand rupees me		
(vi)	Medicinal and Toilet preparation act 1955 is effectively implemented throughout India from			
	(a) 2nd May 1956			
	(b) 5th June 1957			
	(c) 2nd April 1952			
	(d) 2nd April 1957			
(111)	The pharmacy bill was introduced by government of India in			
(vii)	(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 (d) Imprisonment up to 6 months			
	(d) imprisonment up to o months	& Rs. 1000 Fine on subsequent conviction		
(ix)	Change in colour of the hair and growth of new hair type of disease cover in which schedule as per D & C act 1940?			
	(a) Schedule J	(b) Schedule K		
	(c) Schedule E1	(d) Schedule Y		
(x)	Central register maintained by			
(/	(a) Central council	(b) M. C. I.		
	(c) AICTE	(d) State council		
(xi)	In elected member of PCI six me	•		
	(a) Central council	(b) U.G.C.		
	(c) AICTE	(d) All of above		
(xii)	Minimum training required to be pharmacist			
	(a) 100 hours	(b) 500 hours		
	(c) 300 hours	(d) 800 hours		

(xiii)	 Pharmacist in relation trade (a) Should charge fair price (b) Should not attract customer by gift (c) Always purchase medicament from reputed sources (d) All of above 			
(xiv)	Pharmacist in relation to his profe(a) Pharmacist-vigilance(b) Law-abiding citizen(c) Decoram and propriety(d) All of above	ession		
(xv)	The magic remedies act at was pa (a) 1954 (c) 1920	ssed in the year (b) 1944 (d) 1935		
(xvi)	Cure for cancer in an example of (a) Prohibited (c) Bonafide	the following advertisements (b) Exempted (d) Permitted		
(xvii)	Penalty for use of government and (a) 500 (c) 1000	alyst report for advertisement is (b) 5000 (d) None	5	
(xviii)	MTP act was passed in which yea (a) 1971 (c) 1975	r (b) 1985 (d) 1945		
(xix)	If any person doing MTP is not R (a) 2-7 year (c) 5-10 year	MP can punished with impriso (b) 1 year (d) None of above	nment of	
(xx)	The application to import drug as (a) Form 12A (c) Form 12B	part of bonafide luggage is ma (b) Form 12 (d) Form 26	de to the licensing authority in	
		Part-B		
-	nswer questions attempt any two questions. Each que	estion carries 10 marks.	[2x10 = 20 Marks]	
Q. 1	Write detail about Legal Code of Pharmaceutical ethics.			
Q. 2	Detail about National list of Essential Medicines (NLEM).			
Q. 3	Detail about Labelling and Packing of Drug and schedule.			
Short a	nswer questions.	Part-C	[5x7 = 35 Marks]	

Note: Attempt seven questions. Each question carries 5 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