

BRAINWARE UNIVERSITY

Term End Examination 2021 - 22 Programme – Bachelor of Pharmacy Course Name – Medicinal Chemistry I Course Code - BP402T (Semester IV)

Time allotted: 1 Hrs.30 Min. Full Marks: 75 [The figure in the margin indicates full marks.] Group-A (Multiple Choice Type Question) 1 x 75=75 Choose the correct alternative from the following: (1) The term for replacement of hydrogen with a flourine atom is known as a) Isotope b) Isostere d) Isobar c) Isomer (2) Select a false statement given below with respect to the Lipinski's Rule of five a) Molecular weight of drug must be less than 50 b) Number of H-bond donor must be less than 5 c) Number of H-bond acceptor must be less than d) Log P must be less than 5 (3) Which of the following is NOT a phase I metabolic transformation? a) Alcohol conjugation b) Alkyl oxidation d) Ketones reduction c) Ester hydrolysis (4) Which of the following is used for the treatment of angina pectoris? a) Atenolol b) Valproic acid c) Paracetamol d) Griseofulvin (5) Which of the following drugs is used for the treatment of cardiac ischemia and congestive heart failure? a) Bisoprolol b) Aspirin c) Paracetamol d) Pantoprazole (6) Ephedrine functions as a) Bronchodilator b) Cardiac stimulant c) Nasal decongestant d) All of these

b) Tamoxifen

d) Methysergide

(7) Which of the following drugs is used for the treatment of migraine?

a) Nalidixic acid

c) Tolbutamide

(8) The parasympathetic system is also known as		
a) Cholinergic system	b) Adrenergic system	
c) Both Cholinergic system and Adrenergic syste m	d) None of these	
(9) Oxymetazoline is principally used as a		
a) Diuretic	b) Antibiotic	
c) Vasodilator	d) Nasal decongestant	
(10) Which of the following drugs is used as a nasal decongestant?		
a) Aspirin	b) Ibuprofen	
c) Propylhexedrine	d) Galantamine	
(11) Pseudoephedrine acts as a		
a) Bronchodilator	b) Vasoconstrictor	
c) Diuretic	d) Antiseptic	
(12) Which of the following is an imidazole derivative and potent competitive antagonist of bo th alpha 1 and alpha 2 receptor?		
a) Prazosin	b) Phenoxybenzamine	
c) Labetalol	d) Phentolamine	
(13) Betanechol is used for the treatment of		
a) Alzheimer's disease	b) Parkinson's disease	
c) Wilson's disease	d) Nephritis	
(14) Ecothiophate is used for the treatment of		
a) Glaucoma	b) Hypertension	
c) Gangrene	d) Yellow fever	
(15) Which of the following drugs is used to overcome paralysis caused by skeletal muscle rela xants?		
a) Edrophonium	b) Griseofulvin	
c) Methicillin	d) Barbiturate	
(16) Neostigmine is synthesized from		
a) m-Chloro-N,N-dimethylaminobenzene	b) 3-dimethylaminophenone	
c) 3-(4-methoxyphenyl)-1- methylhydrazine	d) None of these	
(17) Example of muscarinic anatgonist from amino ale	cohol esters is	
a) Glycopyrrolate	b) Orphenadrine	
c) Biperiden	d) Trihexyphenidyl	
(18) Which of the following drugs is a carbamate derivative?		
a) Rivastigmine	b) Galantamine	
c) Amphetamine	d) Aspirin	
(19) Which of the following is an organophosphate in	secticide?	
a) Parathion	b) Lysergic acid	
c) Nalidixic acid	d) None of these	
(20) What is the natural source of Hyoscyamine?		
a) Panax ginseng	b) Hyoscyamus niger	
c) Atropa belladonna	d) Acorus calamus	
(21) Which of the following is a intermediate lasting barbiturate?		
a) Alprazolam	b) Zopiclone	
c) Amobarbital	d) None of these	

(22) Which of the following drug is an aldehyde	?
a) Triclofos sodium	b) Metformin
c) Rivastigmine	d) Benzocaine
(23) Which of the following is a oxazolidine dior	ne?
a) Carbamazepine	b) Trimethadione
c) Thiopental	d) Ergotamine
(24) Which of the following is a Dichlorophenyl	acetic acid derivative?
a) Ketamine	b) Piroxicam
c) Diclofenac	d) Paracetamol
(25) Ultra short acting barbiturate used as general	al anesthetic is
a) Thiopental	b) Ketamine
c) Fentanyl	d) Midazolam
(26) Which of the following drugs is used for the	e treatment of Parkinson's disease?
a) Valproic acid	b) Timolol
c) Procyclidine	d) Cisplatin
(27) A structure which is used as the starting points as	nt for drug design and development is termed
a) Active principle	b) Pharmacophore
c) Lead compound	d) Orphan drug
(28) Isostere of sulphur atom is	
a) -NH-	b) -O-
c) -Se-	d) All of these
(29) Optical isomers	
a) Have different melting points	b) Rotate plane-polarized light in opposite directions
c) Have different solubilities in water	d) Have different indices of refraction
(30) pH is defined as	
a) -log[H+]	b) -ln[H+]
c) log[H+]	d) ln[OH-]
(31) pKa is defined as	
a) -logKa	b) lnKa
c) logKa	d) None of these
(32) Which of the following is a Phase II metabo	lism transformation?
a) Oxidation	b) Reduction
c) Glucoronidation	d) Hydrolysis
(33) Which of the following drugs is used for the	e treatment of nasal congestion?
a) Clonidine	b) Carbidopa
c) Barbiturate	d) Carbamazipine
(34) Which of the following drugs is used for the	e treatment of cardiomyopathy?
a) Dobutamine	b) Aspirin
c) Nimesulide	d) Diclofenac
(35) Which of the following is used to control ta	chycardia?
a) Nicotine	b) Esmolol
c) Muscarine	d) Histamine

(36) Labetolol is used for the treatment of	<u> </u>
a) Hypertension	b) Gout
c) Inflammation	d) Nphritis
(37) Which of the following is an antianginal drug?	
a) Metoprolol	b) Paracetamol
c) Aspirin	d) Nimesulide
(38) The sympathetic system is also known as	
a) Cholinergic System	b) Adrenergic System
c) Both 1 and 2	d) None of these
(39) Norepinephrine is also known as	
a) Noradrenaline	b) Adrenaline
c) Acetylcholine	d) Dopamine
(40) How many subtypes of alpha adrenergic receptor	rs are there?
a) 2	b) 6
c) 10	d) 5
(41) Naphazoline is used as a	
a) Vasodilator	b) Vasoconstrictor
c) Decongestant	d) None of these
(42) Which of the following drugs is used for the trea	tment of acute hypertension?
a) Phenoxybenzamine	b) Galantamine
c) Cimetidine	d) Aspirin
(43) Which of the following can be used as an antiang	ginal drug?
a) Propranolol	b) Rivastigmine
c) Hyoscyamine	d) Digitoxin
(44) Terbutaline is used for the treatment of	
a) Bronchial asthma	b) Ulcer
c) Colitis	d) Nephritis
(45) The adrenergic beta 1 receptors are located in	
a) Kidney	b) Adipose tissue
c) Lungs	d) Adrenal gland
(46) Salbutamol is synthesized from	
a) Phenyl acetonitrile	b) 4-Hydroxy propiophenone
c) Methyl 2-hydroxybenzoate	d) Mesitylene derivative
(47) The synthesis of norepinephrine is prevented by	
a) Alpha-methyldopa	b) Ephedrine
c) Pilocarpine	d) Reserpine
(48) Which of the following drugs is used for the trea	tment of nicotine dependence?
a) Lobeline	b) Penicillin
c) Diclofenac	d) Nimesulide
(49) Clidinium is used for the treatment of	
a) Stomach ulcers	b) Infection
c) Sepsis	d) Goitre
(50) Isopropamide is used for the treatment of	
a) Intestinal inflammation	b) Hypoxia

c) Acidity	d) Angina	
(51) Which of the following is used for the diagnosis	of bronchial hyper-reactivity?	
a) Muscarine	b) Nicotine	
c) Methacholine	d) Frusemide	
(52) Which of the following drugs can be used in case elaxants?	e of paralysis caused by skeletal muscle r	
a) Neostigmine	b) Adrenaline	
c) Amphetamine	d) Aspirin	
(53) Which of the following drugs is used as an antispasmodic?		
a) Aspirin	b) Valproic acid	
c) Oxybutynin	d) Carbamazepine	
(54) Which of the following is used as a myotic agent	?	
a) Frusemide	b) Physostigmine	
c) Ampicillin	d) Methicillin	
(55) Which of the following drug is used as a myotic and dihydrofuran ring?	agent and contain both the imidazole ring	
a) Pilocarpine	b) Procainamide	
c) Aspirin	d) Timolol	
(56) Which of the following drugs is used as an antido	ote for organic phosphate poisoning?	
a) Pralidoxime	b) Metformin	
c) Aspirin	d) Griseofulvin	
(57) Which of the following drugs is an used for the t	reatment of motion sickness?	
a) Cisplatin	b) Scopolamine	
c) Benzocaine	d) Xylocaine	
(58) Which of the following is a non-depolarizing mu	scle relaxant?	
a) Griseofulvin	b) Cocaine	
c) Morphine	d) Tubocurarine	
(59) For maximum muscarinic potency numbers of at ydrogen are	oms between the nitrogen and terminal h	
a) Less than 5	b) Less than 2	
c) Greater than 5	d) None of these	
(60) Number of Acetylcholine molecules per second p	per molecule of cholinesterase enzyme is	
a) Less than 5000	b) Greater than 12000	
c) Between 5000-12000	d) None of these	
(61) Which of the following drugs is used in the treati	ment of Alzheimer's disease?	
a) Rivastigmine	b) Biperiden	
c) Amphetamine	d) Lysergic acid	
(62) Which of the following alkaloids is most widely	used for motion sickness?	
a) Atropine	b) Hyoscyamine	
c) Hyoscine	d) None of these	
(63) Which of the following drugs is a quarternary an	nine?	
a) Cisplatin	b) Diclofenac	
c) Nimesulide	d) Ambenonium	
(64) Which of the following drugs is used as an antido	'	

a) Cisplatin	b) Celecoxib	
c) Pralidoxime	d) None of these	
(65) The natural source of Physostigmineis		
a) Physostigma venenosum	b) Atropa belladonna	
c) Panax ginseng	d) Cassia angustifolia	
(66) Which of the following drugs is an amino alcohol ester?		
a) Cyclopentolate	b) Aspirin	
c) Gemcitabine	d) Metformin	
(67) Carbachol is synthesized from		
a) Ethyl formate	b) Ethanol	
c) Formic acid	d) Ethylene chlorohydrin	
(68) Which of the following is a carbamate?		
a) Meprobamate	b) Vancomycin	
c) Rosiglitazone	d) Tamsolusin	
(69) Diazepam is synthesized from:		
a) Chloral hydrate	b) 4-Chloroaniline	
c) Acetic anhydride	d) Pyridine	
(70) Antipsychotics are also known as	_	
a) Diuretics	b) Analeptics	
c) Hypnotics	d) Neuroleptics	
(71) Which of the following is a beta amino keton	e?	
a) Ketamine	b) Molindone hydrochloride	
c) Triclofos	d) Morphine	
(72) Which of the following is a hydantoin derivat	tive?	
a) Nimesulide	b) Ketorolac	
c) Phenytoin	d) Valproic acid	
(73) Which of the following is a N-Anthranilic acid derivative?		
a) Hyoscyamine	b) Mefenamic acid	
c) Rivastigmine	d) Antipyrine	
(74) Which of the following is a Indole acetic acid	l derivative?	
a) Piroxicam	b) Indomethacin	
c) Paracetamol	d) Ibuprofen	
(75) Which of the following is a Napthalene acetic acid derivative?		
a) Naproxan	b) Sulindac	
c) Ibuprofen	d) Aspirin	