



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 fluorine atom is known as
 - a) Isotope
 - b) Isostere
 - c) Isomer
 - d) Isobar
- (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 500
 - b) Number of H-bond donor must be less than 5
 - c) Number of H-bond acceptor must be less than 5
 - 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
 - c) Ester hydrolysis
 - d) Ketones reduction
- (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
- (7) Which of the following drugs is used for the treatment of migraine?

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- a) Nalidixic acid
c) Tolbutamide
- b) Tamoxifen
d) Methysergide
- (8) The parasympathetic system is also known as _____
a) Cholinergic system
b) Adrenergic system
c) Both Cholinergic system and Adrenergic system
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 both alpha 1 and alpha 2 receptor?
a) Prazosin
b) Phenoxybenzamine
c) Labetalol
d) Phentolamine
- (13) Betanecol 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 relaxants?
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 antagonist from amino alcohol 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 insecticide?
a) Parathion
b) Lysergic acid
c) Nalidixic acid
d) None of these
- (20) What is the natural source of Hyoscyamine?

- a) Panax ginseng
c) Atropa belladonna
- b) Hyoscyamus niger
d) Acorus calamus
- (21) Which of the following is an intermediate acting barbiturate?
a) Alprazolam
c) Amobarbital
- b) Zopiclone
d) None of these
- (22) Which of the following drug is an aldehyde?
a) Triclofos sodium
c) Rivastigmine
- b) Metformin
d) Benzocaine
- (23) Which of the following is an oxazolidinone?
a) Carbamazepine
c) Thiopental
- b) Trimethadione
d) Ergotamine
- (24) Which of the following is a Dichlorophenyl acetic acid derivative?
a) Ketamine
c) Diclofenac
- b) Piroxicam
d) Paracetamol
- (25) Ultra short acting barbiturate used as general anesthetic is _____
a) Thiopental
c) Fentanyl
- b) Ketamine
d) Midazolam
- (26) Which of the following drugs is used for the treatment of Parkinson's disease?
a) Valproic acid
c) Procyclidine
- b) Timolol
d) Cisplatin
- (27) A structure which is used as the starting point for drug design and development is termed as _____
a) Active principle
c) Lead compound
- b) Pharmacophore
d) Orphan drug
- (28) Isostere of sulphur atom is
a) -NH-
c) -Se-
- b) -O-
d) All of these
- (29) Optical isomers _____
a) Have different melting points
c) Have different solubilities in water
- b) Rotate plane-polarized light in opposite directions
d) Have different indices of refraction
- (30) pH is defined as _____
a) $-\log[H^+]$
c) $\log[H^+]$
- b) $-\ln[H^+]$
d) $\ln[OH^-]$
- (31) pKa is defined as _____
a) $-\log K_a$
c) $\log K_a$
- b) $\ln K_a$
d) None of these
- (32) Which of the following is a Phase II metabolism transformation?
a) Oxidation
c) Glucuronidation
- b) Reduction
d) Hydrolysis
- (33) Which of the following drugs is used for the treatment of nasal congestion?
a) Clonidine
c) Barbiturate
- b) Carbidopa
d) Carbamazepine

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- (48) Which of the following drugs is used for the treatment 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 of paralysis caused by skeletal muscle relaxants?
- 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 agent and contain both the imidazole ring and dihydrofuran ring?
- a) Pilocarpine
b) Procainamide
c) Aspirin
d) Timolol
- (56) Which of the following drugs is used as an antidote for organic phosphate poisoning?
- a) Pralidoxime
b) Metformin
c) Aspirin
d) Griseofulvin
- (57) Which of the following drugs is an used for the treatment of motion sickness?
- a) Cisplatin
b) Scopolamine
c) Benzocaine
d) Xylocaine
- (58) Which of the following is a non-depolarizing muscle relaxant?
- a) Griseofulvin
b) Cocaine
c) Morphine
d) Tubocurarine
- (59) For maximum muscarinic potency numbers of atoms between the nitrogen and terminal hydrogen are _____
- a) Less than 5
b) Less than 2
c) Greater than 5
d) None of these
- (60) Number of Acetylcholine molecules per second per molecule of cholinesterase enzyme is _____
- a) Less than 5000
b) Greater than 12000
c) Between 5000-12000
d) None of these

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- (61) Which of the following drugs is used in the treatment 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 quaternary amine?
- a) Cisplatin
b) Diclofenac
c) Nimesulide
d) Ambenonium
- (64) Which of the following drugs is used as an antidote?
- a) Cisplatin
b) Celecoxib
c) Pralidoxime
d) None of these
- (65) The natural source of Physostigmine is _____
- 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) Tamsulosin
- (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 ketone?
- a) Ketamine
b) Molindone hydrochloride
c) Triclofos
d) Morphine
- (72) Which of the following is a hydantoin derivative?
- 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 derivative?
- a) Piroxicam
b) Indomethacin
c) Paracetamol
d) Ibuprofen

(15) Which of the following is a Naphthalene acetic acid derivative?

- a) Naproxen
- b) Sulindac
- c) Ibuprofen
- d) Aspirin