



BRAINWARE UNIVERSITY
Term End Examination 2020 - 21
Programme – Bachelor of Pharmacy
Course Name – Medicinal Chemistry II
Course Code - BP501T

Semester / Year - Semester V

Time allotted : 90 Minutes

Full Marks : 75

[The figure in the margin indicates full marks. Candidates are required to give their answers in their own words as far as practicable.]

Group-A

(Multiple Choice Type Question)

1 x 75=75

1. *(Answer any Seventy five)*

(i) Which of the following acts as a mediator of itching?

- | | |
|------------------|-------------------|
| a) Histamine | b) Epinephrine |
| c) Acetylcholine | d) Norepinephrine |

(ii) How many major subtypes of Histamine receptors are there?

- | | |
|-------|------|
| a) 2 | b) 3 |
| c) 10 | d) 5 |

(iii) Which subtype of the histamine receptors increase gastric acid secretion?

- | | |
|-------|------------------|
| a) H1 | b) H3 |
| c) H2 | d) None of these |

(iv) Which subtype of the histamine receptors is located in gastric parietal cells?

- | | |
|-------|-------|
| a) H1 | b) H2 |
| c) H3 | d) H4 |

(v) Which of the following is an ethylene diamine derivative?

- | | |
|----------------|--------------|
| a) Pyrilamine | b) Aspirin |
| c) Paracetamol | d) Celecoxib |

- (vi) Which of the following is a piperazine derivative?
- a) Cyclizine
 - b) Galantamine
 - c) Ibuprofen
 - d) Indomethacin
- (vii) Which of the following is a phenothiazine derivative?
- a) Promethazine hydrochloride
 - b) Atropine
 - c) Dopamine
 - d) Rivastigmine
- (viii) Which of the following is used for the treatment of allergy?
- a) Timolol
 - b) Aspirin
 - c) Nimesulide
 - d) Cetrizine
- (ix) Which of the following drugs is used for the treatment of allergic rhinitis?
- a) Nicotine
 - b) Chlorpheniramine maleate
 - c) Bitolterol
 - d) Omeprazole
- (x) Which of the following drugs is used for the treatment of allergy?
- a) Promethazine
 - b) Aspirin
 - c) Nimesulide
 - d) Diclofenac
- (xi) Which of the following drugs is used for the treatment of urticaria?
- a) Cetrizine
 - b) Nimesulide
 - c) Cisplatin
 - d) Vincristine
- (xii) Which of the following drugs is used for the treatment of heart burn?
- a) Cimetidine
 - b) Paracetamol
 - c) Procainamide
 - d) Celecoxib
- (xiii) Ranitidine is used for the treatment of _____
- a) Hypertension
 - b) Gout

c) Peptic ulcer

d) Nephritis

(xiv) Rabeprazole is used for the treatment of _____

a) Hypertension

b) Gastric Ulcer

c) Asthma

d) Glaucoma

(xv) Which of the following is an alkylating agent?

a) Metoprolol

b) Paracetamol

c) Mechlorethamine hydrochloride

d) Nimesulide

(xvi) Which of the following is an antimetabolite?

a) Ampicillin

b) Mercaptopurine

c) Aspirin

d) Tolbutamide

(xvii) Angina Pectoris is a disease affecting:

a) coronary vein

b) pulmonary artery

c) coronary artery

d) pulmonary vein

(xviii) Which heterocyclic ring is present in Diltiazem?

a) Pyridine

b) Thiazepine

c) Thiadiazine

d) Diazepine

(xix) Which drug acts as nitric oxide donor?

a) Sotalol

b) Clofibrate

c) Nifedipine

d) Nitroglycerine

(xx) Example of benzothiazepine derivative is:

a) Cisplatin

b) Amyl nitrite

c) Busulfan

d) Diltiazem

(xxi) Quinidine is used as:

- a) Antihypertensive drug
- b) Antianginal drug
- c) Anticancer drug
- d) Antiarrhythmic drug

(xxii) Which drug blocks the conversion of decapeptide to octapeptide?

- a) Lisinopril
- b) Mexiletine
- c) Telmisartan
- d) Glutamic acid

(xxiii) An example of vasodilator is:

- a) Captopril
- b) Valsartan
- c) Minoxidil
- d) Verapamil

(xxiv) Moderate hypertension occurs when diastolic pressure is:

- a) 90-104 mm of Hg
- b) 50-90 mm of Hg
- c) 105-114 mm of Hg
- d) 115-130 mm of Hg

(xxv) Diuretics are used to :

- a) increase blood flow rate
- b) increase urine flow rate
- c) increase reabsorption
- d) none of these

(xxvi) Tocainamide belongs to which sub class?

- a) IA
- b) IB
- c) IC
- d) None of these

(xxvii) What is the alternative use of Minoxidil?

- a) it helps to rebuild immunity
- b) it helps in osteoporosis
- c) it helps in hair growth
- d) it helps in blood circulation

(xxviii) Which position of purine base is occupied in alkylation by nitrogen mustard?

- a) 5
- b) 6

c) 7

d) 8

(xxix) Ca^{++} channel blockers act to decrease:

a) The constriction in vessels

b) The activation of MLCP

c) Polarization

d) Depolarization

(xxx) β -naphthol derivative used as an antihypertensive drug is:

a) Atenolol

b) Propranolol

c) Metoprolol

d) Timolol

(xxxii) High ceiling diuretics act by inhibiting:

a) $\text{Na}^+/\text{K}^+/\text{2Cl}^-$ cotransporter

b) Na^+/Cl^- symport

c) Na^+/H^+ antiport

d) water reabsorption

(xxxiii) Which one of the following is a Carbonic Anhydrase inhibitor?

a) Thalidomide

b) Acetazolamide

c) Amiloride

d) Spironolactone

(xxxiv) Furan derivative containing drug is:

a) Methazolamide

b) Dichlorphenamide

c) Frusemide

d) Acetazolamide

(xxxv) Triamterene is a potent _____

a) Na^+ channel opener

b) Ca^{++} channel blocker

c) K^+ channel blocker

d) Cl^- channel opener

(xxxvi) Starting material for Frusemide synthesis is:

a) 2,4-dichloro benzoic acid

b) 2-chloroethanoic acid

c) furfuryl amine

d) none of these

(xxxvi) Which one of the following is a mineralocorticoid?

- a) Amilorone
- b) Spironolactone
- c) Furosemide
- d) Acetazolamide

(xxxvii) Which of the following drugs is used in Cyanide toxicity?

- a) Sodium nitroprusside
- b) Guanabenz
- c) Clonidine
- d) Methyldopa

(xxxviii) Mode of action of Alkylating agents is:

- a) Produce nitrogen mustard
- b) Produce aziridinium ion
- c) Binds with 7th position of DNA
- d) All of these

(xxxix) Nifedipine is a derivative of :

- a) Pyridine
- b) Pyrimidine
- c) Phenanthrene
- d) None of these

(xl) Which drug is used as a bile acid sequestrant?

- a) Lisinopril
- b) Verapamil
- c) Cholestipol
- d) Cyproheptadiene

(xli) Arterial flutter happens when arterial beat is:

- a) 80-140/min
- b) 140-170/min
- c) 200-350/min
- d) 350-410/min

(xlii) Which ring is present in quinidine?

- a) Cinnoline
- b) Isoquinoline
- c) Quinoline
- d) Pyridine

(xliii) Which one of the following is a Class I Antiarrhythmic drug?

- a) Acetazolamide
- b) Procainamide

c) Metazolamide

d) Paracetamol

(xlv) Lidocaine is a _____

a) Mild to moderate sodium channel blocker

b) Moderate to high potassium channel blocker

c) High calcium channel blocker

d) None of these

(xlv) An example of a sodium channel blocker is:

a) Flecainide

b) Lidocaine

c) Procainamide

d) Quinidine

(xlv) Class III Antiarrhythmic drugs _____

a) decrease refractory period

b) increase effective refractory period

c) block the calcium channel

d) None of these

(xlv) Class IV Antiarrhythmic drugs cause:

a) Prolongation of depolarization

b) Prolongation of repolarization

c) Prolongation of refractory period of A-V node

d) Prolongation of refractory period of S-A node

(xlv) Which one of the following is a calcium channel blocker?

a) Lidocaine

b) Lignocaine

c) Verapamil

d) Amiodarone

(xlv) Lidocaine is a potent:

a) antibiotic drug

b) antimalarial drug

c) antihypertensive drug

d) local anaesthetic drug

(l) Sotalol is a derivative of :

a) thalidomide

b) acetamide

c) sulfonamide

d) None of these

(li) LDL oxidation inhibitor is:

- a) Sitosterol
- b) Probucol
- c) Cholestipol
- d) All of these

(lii) Colestyramine binds bile in GI tract to prevent:

- a) Emmision
- b) Absorption
- c) Reabsorption
- d) All of these

(liii) Which one of the following is the second factor in blood coagulation?

- a) Factor I
- b) Factor II
- c) Factor III
- d) Factor IV

(liv) Menadione is a source of:

- a) Vit-A
- b) Vit-D
- c) Vit-E
- d) Vit-K

(lv) Which one of the following is an in vitro anti-coagulant?

- a) EDTA
- b) Sodium oxalate
- c) Sodium citrate
- d) All of these

(lvi) Clopidogrel is used as _____

- a) antihypertensive agent
- b) antibiotic agent
- c) antipsychotic agent
- d) antiplatelet agent

(lvii) Digoxin is a:

- a) Steroidal drug
- b) Drug having multi-ring structure
- c) Cardiac glycoside
- d) All of these

(lviii) The structure of steroids is based on _____ skeleton

- a) Indole
- b) 1,2-Cyclopentanophenanthrene

c) Quinoline

d) Isoquinoline

(lix) Steroids consist of _____ rings.

a) 6

b) 4

c) 5

d) 3

(lx) Cholesterol consists of _____ number of Carbon atoms.

a) 27

b) 28

c) 30

d) 29

(lxi) Pregnenolone consists of _____ number of Carbon atoms.

a) 21

b) 22

c) 27

d) 25

(lxii) Androgens consist of _____ number of Carbon atoms.

a) 20

b) 19

c) 30

d) 25

(lxiii) Which of the following is a male sex hormone?

a) Testosterone

b) Oestrogen

c) Progesterone

d) Sitosterol

(lxiv) Chemically Nandrolone is _____

a) 20-nortestosterone

b) 18-nortestosterone

c) 19-nortestosterone

d) 21-nortestosterone

(lxv) Which of the following is used in menopausal hormone therapy?

a) Testosterone

b) Progesterone

c) Nandrolone

d) Galantamine

(lxvi) Which of the following is used for the treatment of inflammation?

- a) Cortisone
- b) Cocaine
- c) Frusemide
- d) Quinine

(lxvii) How many types of Diabetes mellitus are there?

- a) 4
- b) 3
- c) 2
- d) 5

(lxviii) Insulin is secreted by the _____

- a) ? cells of Langerhans
- b) ? cells of Langerhans
- c) Both ? cells of Langerhans and ? cells of Langerhans
- d) None of these

(lxix) Insulin consists of _____ amino acids.

- a) 51
- b) 60
- c) 80
- d) 90

(lxx) Insulin has _____ peptide chains.

- a) 2
- b) 3
- c) 5
- d) 4

(lxxi) The B chain of Insulin consists of _____ amino acids.

- a) 40
- b) 21
- c) 30
- d) 25

(lxxii) Which of the following is a rapid acting Insulin analog?

- a) Novolog
- b) Indolog
- c) Paralog
- d) None of these

(lxxiii) Which of the following is a biguanide derivative?

- a) Thiopental
- b) Desflurane

c) Metformin

d) Propofol

(lxxiv) Which of the following drugs is used for the treatment of Diabetes mellitus?

a) Thiopental

b) Rosiglitazone

c) Fentanyl

d) Midazolam

(lxxv) Which of the following agents is a glucosidase inhibitor?

a) Acarbose

b) Pepsin

c) Dezocine

d) Butorphanol