



## **BRAINWARE UNIVERSITY**

Term End Examination 2023
Programme – B.Pharm-2020
Course Name – Pharmacology III – Theory
Course Code - BP602T
( Semester VI )

Full Marks: 75

Time: 3:0 Hours

[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 20=20

- Choose the correct alternative from the following:
- (i) Define Dextromethorphan
  - a) Analgesic

b) Expectorant

c) Antitussive

- d) Antihistaminic
- (ii) Identify Which of the following ingredients has neither specific antitussive nor expectorant nor bronchodilator action, but is commonly present in proprietary cough formulations:
  - a) Ambroxol

b) Guaiphenesin

c) Chlorpheniramine

- d) Noscapine
- (iii) Identify the following is true for gentamicin:
  - a) It is more active in acidic medium
- b) It has a wide margin of safety
- c) It primarily inhibits gram positive bacteria
- d) It is excreted unchanged, mainly by glomerular filtration
- (iv) Select the antibiotic which inhibits bacterial protein synthesis by interfering with translocation of elongating peptide chain from acceptor site back to the peptidyl site of the ribosome so that ribosome does not move along the mRNA and the peptide chain is prematurely terminated
  - a) Chloramphenicol

b) Erythromycin

c) Tetracycline

- d) Streptomycin
- (v) Explain that the opioid antidiarrhoeal drugs act by the following mechanism(s)
  - a) They relax the intestinal smooth muscle
- b) They inhibit intestinal peristals is
- c) They promote clearance of intestinal pathogens
- d) All of the above
- (vi) Caffeine is more powerful than theophylline in exerting the following action:
  - a) Bronchodilatation

b) Cardiac stimulation

c) Diuresis

d) Augmentation of skeletal muscle contractility

(vii)	Multidrug resistant (MDR) tuberculosis is defin	ed as resistance to:
c)	a) Any two or more antitubercular drugs c) Isoniazid + Rifampin + any one or more antitubercular drugs	b) Isoniazid + any other antitubercular drug
		d) All five first line antitubercular drugs
	The polyene antibiotics act by:	ALVERT ST
	a) Inhibiting fungal cytochrome P450 enzyme	<ul><li>b) Disorienting microtubules in fungal cells</li><li>d) Binding to ergosterol and creating</li></ul>
	c) Inhibiting fungal DNA synthesis	micropores in fungal cell membrane
(ix)	Identify the following class of gastric antisecre and have primary effect on juice volume, with content:	tory drug also reduce gastric motility
	a) Histamine H2 blockers	b) Anticholinergics
	c) Proton pump inhibitors	d) Prostaglandins
(x)	As an antacid, sodium bicarbonate has the observept:	served the following disadvantages
M	a) It causes acid rebound	b) In ulcer patients, it increases risk of perforation
	c) It has low acid neutralizing capacity The HIV titer of an AIDS patient was found to be months of triple drug anti-HIV therapy. The be	
Į.	a) Continue the same 3 drugs for another 3 months	<ul> <li>Replace all 3 drugs with a set of another 3 drugs</li> </ul>
11	c) Replace 2 drugs and continue one previously used drug	<ul> <li>d) Replace one drug and continue two previously used drugs</li> </ul>
xii)	Identify the following is true of anti-H.pylori th	nerapy except:
	a) It is indicated in all patients of peptic ulcer	<ul> <li>Resistance to any single antimicrobial drug develops rapidly</li> </ul>
	c) Concurrent suppression of gastric acid enhances efficacy of the regimen	d) Colloidal bismuth directly inhibits H.pylori but has poor patient acceptability
	Identify the most effective antiemetic for cont	2/開 2.
	a) Prochlorperazine	b) Ondansetron d) Promethazine
	c) Metoclopramide A 70-year-old patient presented with weaknes showed Q-T prolongation, flattening of T wave was low (2.8 mEq/L). He admitted taking a laxa months. Which laxative could be responsible for	s, tiredness and muscle cramps. The ECG and occasional A-V block. His serum K+ ative every day for the past several
	a) a. Bisacodyl	b) Liquid paraffin
	<ul> <li>c) Methylcellulose</li> <li>Immunomodulatory sedative drugs used in the also effective in managing skin manifestations</li> </ul>	to the first of the second control of the second control of the second of the second control of the second of the
	a) tacrolimus	b) cyclophosphamide
	c) buproprion	d) thalidomide
	In methyl alcohol poisoning, there is central ne depression and optic nerve atrophy. These effe	ects are produced due to:
	a) Formaldehyde and formic acid c) Pyridine Which hormone act to maintain the circadian	b) Acetaldehyde d) Acetic acid cycle?
ć	a) melanin	b) heparin
V	c) melatonin	d) bradykinin
kviii)	Which of the following peaks act at noon?	
	a) insulin c) renin	b) Growth hormones d) FSH

AIA) Identity the characteristic reature(s) or pa		
a) It is unstable in aqueous solution	<ul> <li>b) Its antibacterial action is unaffected and tissue fluids</li> </ul>	by pus
<ul> <li>c) It is equally active against resting and multiplying bacteria</li> </ul>	d) Both a and b are correct	
(xx) Which of the following is a second gener gram negative β-lactamases, and cures p gonococcal infection by a single intramu		
a) Cephalexin	b) Cefuroxime	
c) Cefoperazone	d) Ceftazidime	
	Group-B	DE VERME SERVE
(Short Ans	swer Type Questions)	5 x 7=35
2. Describe the mechanism of action of mass of	cell stabilizer.	(5)
3. State mechanism action of Sucralfate		(5) (5)
4. Write pharmacokinetic, adverse effect and drug-drug interaction of cimetidine		
5. Classify antimalarial agents with example		(5)
6. Classify drugs acting as antiemetic.		(5)
7. Categorize immunostimulant drugs, adverse	e effects and uses.	(5)
	OR	
Explain mechanism action of beta lactam ar	ntibiotics.	(5)
8. Categorize immunostimulant drugs.		(5)
5%	OR	
Illustrate resistance of benzyl penicillin		(5)
	Group-C	
(Long Ans	swer Type Questions)	10 x 2=2
9. Define circadian rhythms, chrono-pharma	cology and chronotherapy also describe the	(10)
significance of chronotherapy.	United the Committee of the Section	
10. Evaluate the role of melatonin in circadiar	rhythms.	(10)
	OR	
Clinical symptoms and management of lea	ad poisoning.	(10)

(xix) Identify the characteristic feature(s) of penicillin G is/are:

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