

BRAINWARE UNIVERSITY

Term End Examination 2021 - 22 Programme - Bachelor of Pharmacy Course Name - Pharmacology III Course Code - BP602T (Semester VI)

Time allotted: 1 Hrs.30 Min.

Full Marks: 75

[The figure in the margin indicates full marks.]

 $1 \times 75 = 75$

- Group-A (Multiple Choice Type Question) Choose the correct alternative from the following: (1) Mucokinetic is a drug which: a) Reduces airway mucus secretion b) Increases airway mucus secretion c) Makes respiratory secretions more watery d) Stimulates mucociliary activity of bronchia 1 epithelium (2) Dextromethorphan is an: a) Analgesic b) Expectorant c) Antitussive d) Antihistaminic (3) Which of the following ingredients has neither specific antitussive nor expectorant n or bronchodilator action, but is commonly present in proprietary cough formulation S: a) Ambroxol b) Guaiphenesin c) Chlorpheniramine d) Noscapine (4) Inhaled salbutamol is useful in bronchial asthma for: a) Round the clock prophylaxis of asthma b) Status asthmaticus c) Aborting/terminating asthma attacks d) All of the these (5) In comparison to inhaled β2 adrenergic agonists, the inhaled anticholinergies:

- a) Are more effective in bronchial asthma
- b) Are better suited for control of an acute att ack of asthma
- c) Produce slower response in bronchial asth
- d) Produce little benefit in chronic obstructive lung disease

- (6) Budesonide is a:
 - a) Nonsteroidal antiinflammatory drug
- b) High ceiling diuretic
- c) Inhaled corticosteroid for asthma
- d) Contraceptive

(7) Gynaecomastia can occur as a side effect of:	
a) Bromocriptine	b) Cimetidine
c) Famotidine	d) Levodopa
(8) Choose the drug which blocks basal as well a out affecting cholinergic, histaminergic or ga	s stimulated gastric acid secretion with strin receptors:
a) Omeprazole	b) Famotidine
c) Loxatidine	d) Pirenzepine
(9) The following class of gastric antisecretory d ve primary effect on juice volume, with less r nt:	rug also reduce gastric motility and ha marked effect on acid and pepsin conte
a) Histamine H2 blockers	b) Anticholinergies
c) Proton pump inhibitors	d) Prostaglandins
(10) The primary mechanism by which prostaglan	dins promote ulcer healing is:
a) Inhibition of gastric acid secretion	b) Augmentation of bicarbonate buffered mu us layer covering gastroduodenal mucosa
 c) Increased bicarbonate secretion in gastric j uice 	d) Increased turnover of gastric mucosal cell
(11) As an antacid, sodium bicarbonate has the fol	lowing disadvantages except:
a) It causes acid rebound	b) In ulcer patients, it increases risk of perfor
c) It has low acid neutralizing capacity	d) It is contraindicated in hypertensives
(12) Sucralfate promotes healing of duodenal ulcer	
a) Enhancing gastric mucus and bicarbonate s ecretion	b) Coating the ulcer and preventing the action of acid-pepsin on ulcer base
c) Promoting regeneration of mucosa	d) Both '1' and '2' are correct
(13) The following is true of anti-H.pylori therapy	
a) It is indicated in all patients of peptic ulcer	b) Resistance to any single antimicrobial drug develops rapidly
c) Concurrent suppression of gastric acid enh ances efficacy of the regimen	d) Colloidal bismuth directly inhibits H.pylor but has poor patient acceptability
(14) The most effective antimotion sickness drug st	
a) Promethazine theoclate	b) Cinnarizine
c) Prochlorperazine	d) Hyoscine
(15) Chlorpromazine and its congeners suppress vo	miting of following etiologies except:
a) Radiation sickness	b) Post-anaesthetic
c) Motion sickness	d) Uremic
(16) The fastest symptomatic relief as well as higher are obtained with:	st healing rates in reflux esophagitis
a) Prokinetic drugs	b) H2 receptor blockers
c) Proton pump inhibitors	d) Sodium alginate
(17) The most effective antiemetic for controlling of	
a) Prochlorperazine	b) Ondansetron
e) Metoclopramide	d) Promethazine
(18) Prolonged treatment with the following drug ca f the gall bladder is functional:	in promote dissolution of gallstones i

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a) Ursodeoxycholic acid	b) Sodium taurocholate
c) gamma	d) none
(19) Irrespective of the type, all laxatives exert the	following action:
a) Increase the content of solids in the faeces	b) Increase the water content of faeces
c) Reduce absorption of nutrients	d) Increase intestinal motility
(20) A 70-year-old patient presented with weakness CG showed Q-T prolongation, flattening of T erum K+ was low (2.8 mEq/L). He admitted to several months. Which laxative could be response	wave and occasional A-V block. His s aking a laxative every day for the past
a) Bisacodyl	b) Liquid paraffin
c) Methylcellulose	d) Bran
(21) Stimulant purgatives are contraindicated in the	following:
a) Bed ridden patients	b) Before abdominal radiography
c) Spastic constipation	d) Atonic constipation
(22) Institution of oral rehydration therapy has the a:	following beneficial effect in diarrhoe
a) Stops further diarrhoea	b) Restores hydration and electrolyte balance without affecting diarrhoea
c) Hastens clearance of the enteropathogen	d) Obviates the need for specific antimicrobia I therapy
(23) The following diarrhoea is consistently benefit	ted by antimicrobial therapy:
a) Irritable bowel syndrome	b) Cholera
c) Salmonella diarrhoeas	d) Traveller's diarrhoea
(24) The following is/are true of mesalazine:	
a) It exerts mainly local anti-inflammatory act ion in the lower gut	b) It is a broad spectrum antidiarrhoeal drug
c) It can be administered as a retention enema	d) Both '1' and '3'
(25) The opioid antidiarrhoeal drugs act by the foll-	owing mechanism(s):
a) They relax the intestinal smooth muscle	b) They inhibit intestinal peristalsis
c) They promote clearance of intestinal patho gens	d) All of the these
(26) Choose the antimicrobial which acts by interfecteria:	ering with DNA restructuring in the ba
a) Chloramphenicol	b) Ciprofloxacin
c) Streptomycin	d) Vancomycin
(27) The most important mechanism of concurrent mong bacteria is:	acquisition of multidrug resistance a
a) Mutation	b) Conjugation
c) Transduction	d) Transformation
(28) Methicillin resistant staphylococci do not resp	ond to β-lactam antibiotics because:
a) They produce a β-lactamase which destroy s methicillin and related drugs	b) They elaborate an amidase which destroys methicillin and related drugs
c) They have acquired penicillin binding prot ein which has low affinity for β-lactam anti biotics	d) They are less permeable to β -lactam antibiotics

(29) Superinfections are more common with:	# * * * * * * * * * * * * * * * * * * *
a) Use of narrow spectrum antibiotics	b) Short courses of antibiotics
 Use of antibiotics that are completely absorbed from the small intestines 	
(30) Prophylactic use of antibiotics is not justified	
 a) To prevent secondary infection in common cold 	b) Thoroughly cleaned contaminated wound
c) Rheumatic fever in a child of 10 years	d) Catheterization of urethra in an elderly mal
(31) That sulfonamides act by inhibiting folate sy ollowing findings except:	nthesis in bacteria is supported by the f
 a) Paraaminobenzoic acid antagonises the acti on of sulfonamides 	b) Methionine antagonises the action of sulfo namides
Purines and thymidine present in pus antag onize the action of sulfonamides	d) Bacteria that utilise folic acid taken up fro m the medium are insensitive to sulfonami des
(32) Trimethoprim inhibits bacteria without affect	ing mammalian cells because:
a) It does not penetrate mammalian cells	b) It has high affinity for bacterial but low affinity for mammalian dihydrofolate reductas e enzyme
 c) It inhibits bacterial folate synthetase as wel l as dihydrofolate reductase enzymes 	d) All of the these
(33) The fluoroquinolones have improved over na	lidixic acid in the following respect(s):
a) They have higher antimicrobial potency	b) They have extended antimicrobial spectru m
 c) Development of bacterial resistance against them is slow and infrequent 	d) All of the these
(34) A single oral dose of the following drug can c rrhoea:	ure most cases of uncomplicated gono
a) Ciprofloxacin	b) Cotrimoxazole
c) Spectinomycin	d) Doxycycline
(35) Currently the drug of choice for emperic treatments	ment of typhoid fever is:
a) Chloramphenicol	b) Cotrimoxazole
c) Ampicillin	d) Ciprofloxacin
(36) The most likely explanation of differing sensit penicillins is:	
 a) Differing susceptibilities of the various pen icillins to β-lactamases produced by differe nt bacteria 	b) Differing affinities of penicillin binding pr oteins present in different bacteria towards various penicillins
 c) Differing penetrability of various penicillin s into different bacteria 	d) Differing rates of cell wall synthesis by different bacteria
(37) The characteristic feature(s) of penicillin G is/a	are:
a) It is unstable in aqueous solution	b) Its antibacterial action is unaffected by pus and tissue fluids
c) It is equally active against resting and mult iplying bacteria	d) Both '1' and '2' are correct

(38) Indicate the disease in which penicillin G conti in all cases (unless contraindicated), because the ed resistance so far:	nues to be used as first line treatment ne causative organism has not develop
a) Gonorrhoea	b) Staphylococcal abscess
c) Staphylococcal aureus	d) Syphilis
(39) The most frequent side effect of oral ampicillir	ı is:
a) Loose motions	b) Nausea and vomiting
c) Constipation	d) Urticaria
(40) Clavulanic acid is combined with amoxicillin l	because:
a) It kills bacteria that are not killed by amoxi cillin	b) It retards renal excretion of amoxicillin
c) It counteracts the adverse effects of amoxic illin	 d) It inhibits beta lactamases that destroy amo xicillin
(41) Which of the following is a second generation to gram negative β-lactamases, and cures penionococcal infection by a single intramuscular of	cillinase positive as well as negative g
a) Cephalexin	b) Cefuroxime
c) Cefoperazone	d) Ceftazidime
(42) The most important mechanism by which tetra action is:	cycline antibiotics exert antimicrobial
a) They bind to 30S ribosomes and inhibit ba cterial protein synthesis	b) They bind to 50S ribosomes and interfere with translocation of the growing peptide c hain in the bacteria
c) They chelate Ca2+ ions and alter permeabil ity of bacterial cell membrane	d) They interfere with DNA mediated RNA s ynthesis in bacteria
(43) The following antibiotic penetrates blood-CSF	barrier the best:
a) Chloramphenicol	b) Erythromycin
c) Gentamicin	d) Tetracycline
(44) Which aminoglycoside antibiotic causes more ce as toxic effect:	hearing loss than vestibular disturban
a) Streptomycin	b) Kanamycin
c) Sisomicin	d) Gentamicin
(45) 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 glomer ular filtration
(46) The following antibiotic is a first line drug for omplex infection in AIDS patients	treatment of Mycobacterium avium c
a) Clindamycin	b) Roxithromycin
c) Erythromycin	d) Clarithromycin
(47) 'Red man syndrome' has been associated with owing antibiotic:	rapid intravenous injection of the foll
a) Vancomycin	b) Clindamycin
c) Cefoperazone	d) Piperacillin
(48) The drug of choice for penicillinase producing	g Neisseria gonorrhoeae urethritis is:

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	b) Erythromycin
a) Amoxicillin	d) Ceftriaxone
c) Doxycycline (49) The most important reason for using a combination of the combination	
he treatment of tuberculosis is:	
a) To obtain bactericidal effect	b) To prevent development of resistance to the e drugs
c) To broaden the spectrum of activity	d) To reduce adverse effects of the drugs
(50) Multidrug resistant (MDR) tuberculosis is defi	ned as resistance to:
a) Any two or more antitubercular drugs	b) Isoniazid + any other antitubercular drug
c) Isoniazid + Rifampin + any one or more an titubercular drugs	d) All five first line antitubercular drugs
(51) Which antileprotic drug suppresses lepra react	ion and reversal reaction as well:
a) Clofazimine	b) Rifampin
c) Dapsone	d) Minocycline
(52) The polyene antibiotics act by:	
a) Inhibiting fungal cytochrome P450 enzyme	b) Disorienting microtubules in fungal cells
c) Inhibiting fungal DNA synthesis	d) Binding to ergosterol and creating micropores in fungal cell membrane
(53) The most important toxicity of amphotericin I	3 is:
a) Neurotoxicity	b) Hepatotoxicity
c) Bone marrow depression	d) Nephrotoxicity
(54) The most probable mechanism of action of in	nidazole antifungal drugs is:
a) They bind to ergosterol in fungal cell mem brane and make it leaky	b) They interfere with ergosterol synthesis by fungi
c) They interfere with fungal mitosis	 d) They block oxidative phosphorylation in fungi
(55) Adverse effects of ketoconazole include the f	following except:
a) Gynaecomastia	b) Kidney damage
c) Oligozoospermia	d) Menstrual irregularities
(56) Select the drug that is fungicidal and acts by nzyme:	inhibiting fungal squalene epoxidase e
a) Ketoconazole	b) Terbinafine
c) Tolnaftate	d) Hamycin
(57) The HIV titer of an AIDS patient was found months of triple drug anti-HIV therapy. The	to be reduced but still detectable after 6 best course of action in this patient is:
a) Continue the same 3 drugs for another 3 m	b) Replace all 3 drugs with a set of another 3 drugs
c) Replace 2 drugs and continue one previous ly used drug	d) Replace one drug and continue two previously used drugs
(58) The following drug is a causal prophylactic to prophylactic for vivax malaria:	for falciparum malaria and suppressive
a) Chloroquine	b) Mepacrine
c) Proguanil	d) Quinine
(59) Recrudescence of malaria refers to recurrence	ce of malarial fever due to:

Reinfection of the patient by mosquito bite	b) Reinfection of blood by exoerythrocytic hy pnozoites
c) Incomplete clearance of schizonts from blo	d) Any of these
60) In addition to amoebiasis, metronidazole is use	ed for:
a) Roundworm infestation	b) Giardiasis
c) Kala-azar	d) Hookworm infestation
61) Diethyl carbamazine citrate has the following	action in filariasis:
a) Promotes phagocytosis of circulating micro filariae	b) Kills circulating microfilariae
c) Kills microfilariae present in nodules and s erous fluids	 d) Rapidly kills adult filarial worms and stops production of microfilariae
62) Which anthelmintic drug acts through a specified und only in nematodes:	fic glutamate gated Cl- ion channel fo
a) Niclosamide	b) Ivermectin
c) Pyrantel pamoate	d) Praziquantel
63) The following anticancer drug has high emeter	genic potential:
a) Cisplatin	b) Vincristine
e) Chlorambucil	d) 6-Mercaptopurine
64) Methotrexate has the following attributes exc	ept:
a) Folic acid reverses its toxic effects	b) It is cell cycle specific and kills cells in the S phase
 c) Its toxicity primarily affects bone marrow a nd epithelial structures 	d) It is the drug of choice for choriocarcinoma
(65) The characteristic toxicity of doxorubicin is:	a
a) Kidney damage	b) Cardiomyopathy
c) Liver damage	d) Pulmonary fibrosis
(66) Mesna is administered with cyclophosphamic	le and ifosphamide to:
a) Potentiate their cytotoxic action	b) Retard their renal excretion
c) Ameliorate cystitis caused by them	d) Block their emetic action
(67) Immunomodulatory sedative drugs used in the y; also effective in managing skin manifestat	ne management of some forms of lepros ions of lupus erythematosus
a) tacrolimus	b) cyclophosphamide
c) buproprion	d) thalidomide
(68) Drug of choice in treating autoimmune hemo	lytic anemia:
a) cyclophosphamide plus factor XIII	b) Rho(D) immune globulin
c) OKT3 monoclonal antibody	d) prednisone
(69) Useful in management of idiopathic thrombo	ocytopenic purpura refractory to prednis
a) vincristine	b) dactinomycin
c) cyclophosphamide	d) azathioprine
(70) Which one Inhibits antigen recognition of B-	-cell
a) azathioprine	b) prednisone
c) methotrexate	d) Rho(D) immune globulin
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(72) Which of the following is NOT an initiating event in carcinogenesis? a) DNA adduct formation b) DNA strand breakage c) mutation of proto-oncogenes d) mitogenesis (73) Which of the following toxicity can occur due to single exposure? a) Chronic toxicity c) Acute toxicity d) Sub-acute toxicity (74) The phrase that best defines "toxicodynamics" is the a) linkage between exposure and dose c) dynamic nature of toxic effects among vari ous species (75) The use tamoxifen in certain breast cancer is an example of a) receptor antagonism c) dispositional antagonism

(71) Clinical uses of immunosuppressive drugs:

a) organ transplantation

c) autoimmune disorders

- b) hemolytic disease of the newborn
- d) All of the these
- - - b) Sub-chronic toxicity
 - b) linkage between dose and response
- d) dose range between desired biological cts and adverse health effects
 - b) chemical antagonism
 - d) functional antagonism