

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.]

Group-A

(Multiple Choice Type Question) 1 x 75=75

Choose the correct alternative from the following:

- (1) Mucokinetic is a drug which:
 - a) Reduces airway mucus secretion
 - c) Makes respiratory secretions more watery
- b) Increases airway mucus secretion
- d) Stimulates mucociliary activity of bronchia l epithelium

- (2) Dextromethorphan is an:
 - a) Analgesic
 - c) Antitussive

- b) Expectorant
- 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 $\beta 2$ 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 as out affecting cholinergic, histaminergic or gast	•
a) Omeprazole	b) Famotidine
c) Loxatidine	d) Pirenzepine
(9) The following class of gastric antisecretory drew ve primary effect on juice volume, with less mat:	•
a) Histamine H2 blockers	b) Anticholinergics
c) Proton pump inhibitors	d) Prostaglandins
(10) The primary mechanism by which prostagland	lins promote ulcer healing is:
a) Inhibition of gastric acid secretion	b) Augmentation of bicarbonate buffered muc 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 foll	owing disadvantages except:
a) It causes acid rebound	b) In ulcer patients, it increases risk of perforation
c) It has low acid neutralizing capacity	d) It is contraindicated in hypertensives
(12) Sucralfate promotes healing of duodenal ulcer	by:
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	except:
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.pylori but has poor patient acceptability
(14) The most effective antimotion sickness drug st	uitable for short brisk journies is:
a) Promethazine theoclate	b) Cinnarizine
c) Prochlorperazine	d) Hyoscine
(15) Chlorpromazine and its congeners suppress vo	omiting 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:	est 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	eisplatin induced vomiting is:
a) Prochlorperazine	b) Ondansetron
c) Metoclopramide	d) Promethazine
(18) Prolonged treatment with the following drug c f the gall bladder is functional:	an promote dissolution of gallstones i

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, tiredness and muscle cramps. The E CG showed Q-T prolongation, flattening of T wave and occasional A-V block. His s erum K+ was low (2.8 mEq/L). He admitted taking a laxative every day for the past several months. Which laxative could be responsible for the above condition:		
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 fo	ollowing 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 l therapy	
(23) The following diarrhoea is consistently benefite	ed 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 follow	wing 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 interfer cteria:	ing with DNA restructuring in the ba	
a) Chloramphenicol	b) Ciprofloxacin	
c) Streptomycin	d) Vancomycin	
(27) The most important mechanism of concurrent a mong bacteria is:	equisition of multidrug resistance a	
a) Mutation	b) Conjugation	
c) Transduction	d) Transformation	
(28) Methicillin resistant staphylococci do not respo	nd 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 absor bed from the small intestines 	d) Use of antibiotic combinations covering bo th gram positive and gram negative bacteri a	
(30) Prophylactic use of antibiotics is not justified in	n the following condition:	
 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 e	
(31) That sulfonamides act by inhibiting folate synthesis in bacteria is supported by the f ollowing findings except:		
a) Paraaminobenzoic acid antagonises the acti on of sulfonamides	b) Methionine antagonises the action of sulfo namides	
c) 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 affecting	g mammalian cells because:	
a) It does not penetrate mammalian cells	b) It has high affinity for bacterial but low affi nity 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 nalid	dixic 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 cure most cases of uncomplicated gono rrhoea:		
a) Ciprofloxacin	b) Cotrimoxazole	
c) Spectinomycin	d) Doxycycline	
(35) Currently the drug of choice for emperic treatment of typhoid fever is:		
a) Chloramphenicol	b) Cotrimoxazole	
c) Ampicillin	d) Ciprofloxacin	
(36) The most likely explanation of differing sensitivities of different bacteria to various 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 diff erent bacteria	
(37) The characteristic feature(s) of penicillin G is/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:		
a) Gonorrhoea	b) Staphylococcal abscess	
c) Staphylococcal aureus	d) Syphilis	
(39) The most frequent side effect of oral ampicillin is:		
a) Loose motions	b) Nausea and vomiting	
c) Constipation	d) Urticaria	
(40) Clavulanic acid is combined with amoxicillin 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 cephalosporin that is highly resistant to gram negative β-lactamases, and cures penicillinase positive as well as negative g onococcal infection by a single intramuscular dose:		
a) Cephalexin	b) Cefuroxime	
c) Cefoperazone	d) Ceftazidime	
(42) The most important mechanism by which tetracycline antibiotics exert antimicrobial action is:		
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 hearing loss than vestibular disturban ce as toxic effect:		
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 to 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	Neisseria gonorrhoeae urethritis is:	

a) Amoxicillin	b) Erythromycin	
c) Doxycycline	d) Ceftriaxone	
(49) The most important reason for using a combination of chemotherapeutic agents in t he treatment of tuberculosis is:		
a) To obtain bactericidal effect	b) To prevent development of resistance to the drugs	
c) To broaden the spectrum of activity	d) To reduce adverse effects of the drugs	
(50) Multidrug resistant (MDR) tuberculosis is defined 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 reacti	on 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 micropo res in fungal cell membrane	
(53) The most important toxicity of amphotericin B	is:	
a) Neurotoxicity	b) Hepatotoxicity	
c) Bone marrow depression	d) Nephrotoxicity	
(54) The most probable mechanism of action of imi	dazole 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 fol	llowing except:	
a) Gynaecomastia	b) Kidney damage	
c) Oligozoospermia	d) Menstrual irregularities	
(56) Select the drug that is fungicidal and acts by inhibiting fungal squalene epoxidase e nzyme:		
a) Ketoconazole	b) Terbinafine	
c) Tolnaftate	d) Hamycin	
(57) The HIV titer of an AIDS patient was found to be reduced but still detectable after 6 months of triple drug anti-HIV therapy. The best course of action in this patient is:		
a) Continue the same 3 drugs for another 3 m onths	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 previou sly used drugs	
(58) The following drug is a causal prophylactic for falciparum malaria and suppressive prophylactic for vivax malaria:		
a) Chloroquine	b) Mepacrine	
c) Proguanil	d) Quinine	
(59) Recrudescence of malaria refers to recurrence of malarial fever due to:		

a) Reinfection of the patient by mosquito bite	b) Reinfection of blood by exoerythrocytic hy pnozoites
c) Incomplete clearance of schizonts from blo od	d) Any of these
(60) In addition to amoebiasis, metronidazole is us	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 specific 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 emeto	genic potential:
a) Cisplatin	b) Vincristine
c) Chlorambucil	d) 6-Mercaptopurine
(64) Methotrexate has the following attributes exce	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) Kidney damage	b) Cardiomyopathy
c) Liver damage	d) Pulmonary fibrosis
(66) Mesna is administered with cyclophosphamid	e 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 manifestation	
a) tacrolimus	b) cyclophosphamide
c) buproprion	d) thalidomide
(68) Drug of choice in treating autoimmune hemol	ytic anemia:
a) cyclophosphamide plus factor XIII	b) Rho(D) immune globulin
c) OKT3 monoclonal antibody	d) prednisone
(69) Useful in management of idiopathic thromboc one	sytopenic purpura refractory to prednis
a) vincristine	b) dactinomycin
c) cyclophosphamide	d) azathioprine
(70) Which one Inhibits antigen recognition of B-c	ell
a) azathioprine	b) prednisone
c) methotrexate	d) Rho(D) immune globulin

(71) Clinical uses of immunosuppressive drugs: a) organ transplantation b) hemolytic disease of the newborn d) All of the these c) autoimmune disorders (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 b) Sub-chronic toxicity c) Acute toxicity d) Sub-acute toxicity (74) The phrase that best defines "toxicodynamics" is the a) linkage between exposure and dose b) linkage between dose and response c) dynamic nature of toxic effects among vari d) dose range between desired biological effe ous species cts and adverse health effects (75) The use tamoxifen in certain breast cancer is an example of a) receptor antagonism b) chemical antagonism c) dispositional antagonism d) functional antagonism