

Manipal College of Pharmaceutical Sciences, MAHE, Manipal
BPharm Semester VI, End Semester Examination – July 2021
PHA-BP602T; Pharmacology-III (Theory)

Date: 28-07-2021

Duration: 2:30pm to 4:30pm (Through MS teams)

Max. Marks: 50

I Multiple Choice Questions (MCQs)		20 Q × 1 mark = 20 marks
1	A small amount of atropine is added to diphenoxylate to: Suppress the associated vomiting of gastroenteritis Augment the anti-motility action of diphenoxylate Block side effects of diphenoxylate Discourage overdose and abuse of diphenoxylate	1 mark
2	Esomeprazole act by inhibiting H ⁺ K ⁺ ATPase pump H ⁺ Na ⁺ ATPase pump H ⁺ pump Na ⁺ K ⁺ ATPase pump	1 mark
3	Mechanism of action of vincristine in the treatment of ALL is Inhibition of topoisomerase II to cause breaks in DNA strands Alkylation and cross-linking DNA strands Inhibition of DNA mediated RNA synthesis Inhibition of polymerization of tubulin to form microtubules	1 mark
4	Correctly matched pair of heavy metals and their chelating agent is Iron-BAL Mercury-Calcium disodium edetate Copper-d-penicillamine Arsenic-Desferrioxamine	1 mark
5	In leprosy, the best bactericidal gent is: Clofazimine Dapsone Rifampicin Ethionamide	1 mark
6	Drug of choice for methicillin-resistant staphylococcus aureus is: Amoxicillin-Clavulanate Vancomycin Flucloxacillin Clindamycin	1 mark
7	A contraindication to the use of ciprofloxacin is a history of : Epilepsy Deep vein thrombosis Gout G-6PD deficiency	1 mark
8	Griseofulvin is not useful in one of the followings: Tinea capitis Tinea cruris Tinea versicolor Tinea pedis	1 mark

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9	Which of the following chelating agent is the degradation product of Penicillin? EDTA Dimercaprol Penicillamine Desferrioxamine	1 mark
10	Iron poisoning in a 4-year child is treated by Stomach lavage Desferrioxamine IV 100 mg X-ray abdomen Blood transfusion	1 mark
11.	For a patient with enterococcal endocarditis who is not responding to vancomycin due to resistance, which treatment is mostly recommended from below: Minocycline Ticarcillin Linezolid Clarithromycin	1 mark
12.	Which one among the followings is the major mechanism underlying the resistance of gram-positive organisms to macrolide antibiotics: Methylation of binding sites on the ribosomal subunit** Esterases production to hydrolyze the lactone ring Increased efflux mechanisms Transport failure	1 mark
13.	Regarding the antibacterial action of gentamicin, which one of the following statements is MOST accurate? Efficacy is directly proportional to the time that the plasma level of the drug is greater than the minimal inhibitory concentration The antibacterial action of gentamicin is not concentration-dependent Gentamicin continues to exert antibacterial effects even after plasma levels decrease below detectable levels** Antibacterial activity is often reduced by the presence of an inhibitor of cells wall synthesis	1 mark
14.	Which is the incorrect statement about Doxycycline? It is bacteriostatic It is excreted mainly in faeces It has a long elimination half-life It is more active than tetracycline against <i>Staphylococcus aureus</i> **	1 mark

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15.	An in vitro test result indicating the mutagenic nature of a molecule is: Presence of Salmonella typhi colonies in histidine free medium after treatment Presence of Escherichia coli colonies in histidine free medium after treatment Absence of Escherichia coli colonies in tryptophan free medium after treatment Absence of Salmonella typhi colonies in tryptophan free medium after treatment	1 mark
16.	Which regimen is NOT a recommended one for HAART? Lamivudine + Zidovudine + Tenofovir Zidovudine + Nevirapine + Efavirenz Lamivudine + Stavudine + Nevirapine Zidovudine + Lamivudine + Efavirenz	1 mark
17.	_____ is used against protozoal infection. Paromomycin Gentamicin Kanamycin Niclosamide	1 mark
18.	Chloroquine is indicated for the treatment of the following except: Amoebiasis Arthritis Helminthiasis Leprosy	1 mark
19.	Which is the drug of choice for dry cough? Dextromethorphan Ambroxol Guaiphenesin Ammonium chloride	1 mark
20.	Doxapram is indicated for the treatment of: Acute cough An acute attack of Asthma COPD Hypnotic poisoning	1 mark
II Short Answers		6 Q × 5 marks = 30 marks
1	Explain the physiology of vomiting and explain the mechanism of prokinetic agents.	5 marks
2	With a neat diagram, explain the mechanism of action of Cefepime.	5 marks
3	Steroids are used as immunosuppressant agents. Justify the use of Steroids in the management of COVID-19 infections and chronic TB infection.	5 marks

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4	The enzyme is one of the critical targets for antimicrobial. Explain the mechanism of any two different classes of the drugs which act through this mechanism.	5 marks
5	Explain the objective and method of conducting an <i>in vivo</i> study, which is performed before evaluation of the pharmacological activity of a test molecule in laboratory animals.	5 marks
6	With the help of a diagram, explain the mechanism of action of theophylline and its impact on the heart and lungs.	5 marks

*****End of Questions*****