

Question Paper

Exam Date & Time: 03-Jul-2023 (10:00 AM - 01:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

Pharmacology III (Theory) [PHA-BP602T -S2]

Marks: 75

Duration: 180 mins.

I Multiple Choice Questions (MCQs)

Answer all the questions.

Section Duration: 30 mins

- 1) Cyclosporine-A inhibits: (1)
- [T cells](#)
 - [B cells](#)
 - [Macrophages](#)
 - [Eosinophils](#)
- 2) Which of the following antineoplastic and immunosuppressant drugs is a dihydrofolate reductase inhibitor? (1)
- [Cyclophosphamide](#)
 - [Vincristine](#)
 - [Adriamycin](#)
 - [Methotrexate](#)
- 3) Correctly matched pair of heavy metals and their chelating agents is (1)
- [Iron-BAL](#)
 - [Mercury-Calcium disodium edetate](#)
 - [Copper-d-penicillamine](#)
 - [Arsenic-Desferroxamine](#)
- 4) The drug employed for anti-H.pylori therapy include all of the following EXCEPT (1)
- [Ciprofloxacin](#)
 - [Clarithromycin](#)
 - [Tinidazole](#)
 - [Amoxicillin](#)
- 5) Activation of the following type of receptors present on myenteric neurons by metoclopramide is primarily responsible for the enhanced acetylcholine release and improving gastric motility (1)
- [Muscarinic M1](#)
 - [Serotonergic 5-HT3](#)
 - [Serotonergic 5-HT4](#)
 - [Dopaminergic D2](#)
- 6) Which of the following Cephalosporin is belongs to fourth generation. (1)
- [Cefaclor](#)
 - [Cefixime](#)
 - [Cefepime](#)
 - [Ceftriaxone](#)

- [Cephalothin](#)
- 7) Leprosy treatment includes following drugs EXCEPT (1)
- [Dapsone](#)
[Rifampicin](#)
[Penicillin](#)
[Clofazimine](#)
- 8) Which of the following is the toxicity of Ciprofloxacin? (1)
- [Phototoxicity](#)
[Neurotoxicity](#)
[Rash](#)
[Cartilage necrosis](#)
- 9) INH and pyridoxine are given together in antituberculous chemotherapy (1)
- [To prevent peripheral neuritis](#)
[To prevent emergence of INH resistance](#)
[As a nutrient supplement](#)
[As a synergistic combination](#)
- 10) The drug imatinib acts by the inhibition of (1)
- [Tyrosine kinase](#)
[Glutathione reductase](#)
[Thymidylate synthetase](#)
[Protein kinase](#)
- 11) Which of the following acts as mucolytic (1)
- [Naloxone](#)
[Dextromethorphan](#)
[Ambroxol](#)
[Codeine](#)
- 12) Which of the following antimicrobial agent causes the leakage of cell membrane (1)
- [Gentamycin](#)
[Amphotericin](#)
[Idoxuridine](#)
[Ethambutol](#)
- 13) Which of the following antiviral agent is an anti-herpes drug (1)
- [Valganciclovir](#)
[Amantadine](#)
[Enfuvirtide](#)
[Nevirapine](#)
- 14) One of the following antiviral agents is an entry-inhibitor. (1)
- [Saquinavir](#)
[Efavirenz](#)
[Maraviroc](#)
[Emtricitabine](#)
- 15) Anthelmintic drug that is also used to treat Bacterial vaginosis, Trichomoniasis, and Giardiasis (1)
- [Diethylcarbamazine](#)

- [Piperazine](#)
[Metronidazole](#)
[Pyrantel](#)
- 16) Which of the following is NOT an oral antimalarial (1)
- [Artemether](#)
[Artemesinin](#)
[Artesunate](#)
[Arterolane](#)
- 17) Which type of the following substance can be identified by Ames test (1)
- [Mutagenic](#)
[Allergic](#)
[Immunogenic](#)
[Pyogenic](#)
- 18) Which is the drug for treatment of Minamata Disease (1)
- [BAL](#)
[LAL](#)
[DAM](#)
[2-PAM](#)
- 19) Phocomelia caused by (1)
- [Tetracycline](#)
[Thalidomide](#)
[Morphine](#)
[Barbiturates](#)
- 20) In alcoholics, which of the following drug has a higher risk of hepatotoxicity (1)
- [Morphine](#)
[Paracetamol](#)
[Chloramphenicol](#)
[Tetracycline](#)

II Long Answers

Answer all the questions.

- 1) Classify anticancer drugs. Discuss the mechanism of action of alkylating agents. List their adverse effects. (10)
- 2) Describe the mechanism of action, therapeutic uses and ADRs of bronchodilators. Discuss the limitations of corticosteroids in the treatment of asthma (3+3+3+1). (10)

III Short Answers

Answer all the questions.

- 1) Describe the general methods of management of poisoning (5)
- 2) Classify Immunosuppressants. Describe the mechanism of action of cyclosporine (5)
- 3) With a neat diagram explain the physiology of gastric acid secretion. Discuss the drugs used to treat ulcers (5)
- 4) Classify antifungal drugs. Explain the mechanism of action and side effects of azoles. (5)
- 5) Discuss antimicrobial resistance with examples. (5)
- 6) Explain the mechanism of action, therapeutic uses of tetracycline and chloramphenicol (2½ + 2½). (5)
- 7) Discuss the mechanism of action of metronidazole. List any four uses and important toxicity of (5)

metronidazole.

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