

# Question Paper

Exam Date & Time: 16-May-2023 (10:00 AM - 01:00 PM)



## MANIPAL ACADEMY OF HIGHER EDUCATION

Pharmacology III (Theory) [PHA-BP602T -S1]

Marks: 75

Duration: 180 mins.

### I Multiple Choice Questions (MCQs)

Answer all the questions.

Section Duration: 30 mins

- 1) Amphotericin B toxicity can be reduced by (1)
- [Incorporating it in liposomal complex](#)
  - [Reducing the dose](#)
  - [Combining with flucytosine](#)
  - [Injecting the drug with dextrose](#)
- 2) Drug of choice for treatment of infection caused by MRSA is (1)
- [Macrolides](#)
  - [Third generation cephalosporin](#)
  - [Carbapenems](#)
  - [Glycopeptides](#)
- 3) Sparfloxacin can cause (1)
- [Ventricular arrhythmia](#)
  - [Myopathy](#)
  - [Electrolyte imbalance](#)
  - [Nephropathy](#)
- 4) Treatment of lepromatous leprosy is (1)
- [Rifampicin + Dapsone](#)
  - [Rifampicin + Clofazamine](#)
  - [Rifampicin + Dapsone + Clofazamine](#)
  - [Rifampicin + Ofloxacin + Minocycline](#)
- 5) Leucovorin is used to decrease the toxicity of (1)
- [Methotrexate](#)
  - [6-Mercaptopurine](#)
  - [Thio-TEPA](#)
  - [Cytosine arabinoside](#)
- 6) Drug implicated for prolong QT interval in a premature baby is: (1)
- [Domperidone](#)
  - [Metoclopramide](#)
  - [Cisapride](#)
  - [Omeprazole](#)

7) Ondansatron is a: (1)

- [5HT1 antagonist](#)
- [5HT2 antagonist](#)
- [5HT3 antagonist](#)
- [5HT4 antagonist](#)

8) Iron poisoning in 4 year child is treated by: (1)

- [Stomach lavage](#)
- [Desferrioxamine IV 100 mg](#)
- [X-ray abdomen](#)
- [BAL](#)

9) Anthelmintic also acting as immunomodulatory is: (1)

- [Albendazole](#)
- [Levamisole](#)
- [Mebendazole](#)
- [Piperazine](#)

10) Cyclosporine inhibits (1)

- [T lymphocyte proliferation](#)
- [B lymphocyte proliferation](#)
- [Both T and B lymphocyte proliferation](#)
- [NK cells only](#)

11) Which of the following is a NON-OPIOID antitussive (1)

- [Codeine](#)
- [Ethylmorphine](#)
- [Noscapine](#)
- [Acetylcysteine](#)

12) Which of the following nasal decongestants acts through  $\alpha$ -agonistic action? (1)

- [Xylometazoline](#)
- [Almitrine](#)
- [Chlophedianol](#)
- [Chlorpheniramine](#)

13) Which of the following can be used to kill malarial HYPNOZOITES in liver (1)

- [Primaquine](#)
- [Artesunate](#)
- [Artemether](#)
- [Chloroquine](#)

14) Which of the following drug is used as TISSUE Amoebicide, and it can also be used in GIARDIASIS? (1)

- [Diloxanide](#)
- [Tinidazole](#)
- [Quiniodochlor](#)

- [Paromomycin](#)
- 15) Which of the following drug used to prevent filariasis. (1)
- [Pyrantel pamoate](#)  
[Tinidazole](#)  
[Diethylcarbamazine](#)  
[Albendazole](#)
- 16) Which of the following is a synthetic antimicrobial agent (1)
- [Griseofulvin](#)  
[Ciprofloxacin](#)  
[Tetracycline](#)  
[Chloramphenicol](#)
- 17) Which of the following test is NOT an alternative to an animal experiment (1)
- [EpiSkin](#)  
[Ames](#)  
[Straub](#)  
[LAL](#)
- 18) A specific antidote for morphine overdose (1)
- [Dextromethorphan](#)  
[Methadone](#)  
[Naloxone](#)  
[Endorphin](#)
- 19) Which is the specific antidote for pesticide poisoning (1)
- [Pralidoxime](#)  
[dTC](#)  
[Eserine](#)  
[Tacrine](#)
- 20) Which of the following is the antidote for lead poisoning (1)
- [DAM](#)  
[Dimercapto-succinic acid](#)  
[2-PAM](#)  
[Benzoic acid sulfone](#)

### II Long Answers

Answer all the questions.

- 1) Classify penicillins with example. With a neat diagram, describe the mechanism of action, adverse effect and therapeutic uses of Cephalosporins. (10)
- 2) With example, classify antimicrobial agents based on the mechanism of action. Discuss narrow-spectrum and broad-spectrum antimicrobial agents. (10)

### III Short Answers

Answer all the questions.

- 1) Explain the mechanism of action of alkylating agents. List their adverse effects (5)
- 2) Discuss how drugs interfere with the immune responses in the human body (5)
- 3) Classify the drugs for peptic ulcer. With a neat diagram explain the mechanism of action of proton pump inhibitors. (5)

- 4) Classify anti-tubercular drugs with examples. Explain the mechanisms of actions of any two first line anti-tubercular drugs. (5)
- 5) Discuss the mechanism of action of SABA and LABA. Explain their role in the treatment of asthma. (5)
- 6) Discuss the mechanism of actions of aminoglycoside antibiotics. Enumerate the toxicities of aminoglycosides. (5)
- 7) Discuss any five molecular mechanisms of anti-HIV drugs. Give one example each. (5)

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