

**BP 602 T**

**2025**

**B.Pharm. 6<sup>th</sup> Semester End-Term Examination**

**PHARMACOLOGY – III**

Bina Chowdhury Central Library  
Girijananda Chowdhury University  
Hatkhowapara, Azara, Ghy-17

Full Marks – 75

Time – Three hours

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The figures in the margin indicate full marks for the questions.

1. Multiple choice questions (answer *all* questions) : 1 × 20
- (i) Organophosphorus may cause toxicity by
- (a) Accumulation of acetylcholine
  - (b) Accumulation of anticholinesterase
  - (c) Affecting neurotransmitter
  - (d) None of the above
- (ii) Circadian rhythm is associated with
- (a) 12 hours' time frame
  - (b) 24 hours' time frame
  - (c) Both (i) and (ii)
  - (d) All of these
- (iii) The penicillin stable in gastric acid and suitable for oral administration is
- (a) Ampicillin
  - (b) Carbenicillin
  - (c) Cloxacillin
  - (d) Penicillin-G
- (iv) Which of the following drugs may show plasmid-mediated resistance?
- (a) Nalidixic acid
  - (b) Ampicillin
  - (c) Rifampicin
  - (d) Methicillin
- (v) The antibiotic not having good activity against *Enterobacteriaceae*
- (a) Clindamycin
  - (b) Cefoxitin
  - (c) Cotrimoxazole
  - (d) Ciprofloxacin

[Turn over



- (vi) Which of the following is correct mechanism of action of rifampicin?
- Inhibit bacterial DNA synthesis
  - Inhibit DNA dependent RNA polymerase
  - Inhibit bacterial cellwall synthesis
  - None of the above
- (vii) Leprosy is also known as \_\_\_\_\_.
- Skin cancer
  - Steven Johns Syndrome
  - Hansen's disease
  - All the above
- (viii) Amphotericin B is obtained from
- Streptomyces niagra
  - Streptomyces nodosus
  - Streptomyces aureus
  - Pseudomonas aeruginosa
- (ix) Pyrimethamine is drug of choice for
- Typhoid
  - Toxoplasmosis
  - Filariasis
  - Anthelmintic
- (x) Which of the following drug belong to anti-IgE antibody category?
- Telmisartan
  - Omalizumab
  - Pranlukast
  - Ondansetron
- (xi) The following drug is contraindicated in bronchial asthma:
- Propranolol
  - Ipratropium bromide
  - Theophylline
  - Ketotifen
- (xii) Release of histamine and leuokotrienes from mast cells is prevented by
- Zileuton
  - Nedocromil sodium
  - Zafirlukast
  - Fexofenadine
- (xiii) Mechanism of action of activated charcoal is
- Adsorption
  - Absorption
  - Neutralization
  - All of these
- (xiv) Which combination of following drug is very effective penicillin with beta-lactamase inhibitor?
- Ampicillin + Cloxacillin
  - Ampicillin + Probenecid
  - Amoxicillin + Clavulanic acid
  - Amoxicillin + Cloxacillin

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(xv) Mantoux test is done for the identification of \_\_\_\_\_.

- (a) Leprosy
- (b) Tuberculosis
- (c) Meningitis
- (d) Allergic reaction

(xvi) Mechanism of action of sulphone is/are \_\_\_\_\_.

- (a) Inhibit bacterial synthesis of dihydrofolic acid
- (b) Inhibit bacterial growth by blocking glucose supply
- (c) Inhibit cell wall synthesis
- (d) Inhibit protein synthesis

(xvii) Which of the following drug is used for the treatment of chloroquine – resistant falciparum malaria?

- (a) Primaquine
- (b) Mefloquine
- (c) Prednisolone
- (d) Artesunate

(xviii) Piperazine should not be taken with pyrantel pamoate

- (a) It is hyperpolarizing agent
- (b) It antagonized pyrantel pamoate
- (c) It causes flaccid paralysis
- (d) All of the above

(xix) Emetine is converted to which form by CYP2D6?

- (a) Cephaeline
- (b) Ergotamine
- (c) Mercaptopurine
- (d) Methotrexate

(xx) Which of the following drug is active against cestodes?

- (a) Bithionol
- (b) Albendazole
- (c) Ivermectin
- (d) Niclosamide

2. Write short note on following questions (any seven) :

7 × 5

- (a) Write a note on causes and prevention of antimicrobial resistance.
- (b) Mention xanthine derivatives and write their mechanism of antiasthmatic action.
- (c) Write flowchart showing life cycle of Plasmodium species.
- (d) Write the clinical symptoms of heavy metal poisonings. Add a note on their antidotes.
- (e) Classify sulphonamides. Write the mode of action, adverse drug reaction and uses of cotrimoxazole.



- (f) Write a detailed note on biosimilars.
- (g) Define and classify expectorants. Write MOA of dextromethorphan.
- (h) Illustrate the various types of immunostimulants with suitable examples.
- (i) Briefly narrate the various categories of antibiotics suggesting their mechanism of action with examples.

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3. Long question (answer any *two*) :

2 × 10

- (a) Explain the antitubercular drugs with examples and their mechanism of action. What is DOTS therapy?
  - (b) Classify antifungal agents with examples. Write mechanism of action, adverse effects and therapeutic uses of Triazoles.
  - (c) Classify antiemetics? Explain mechanism of action, uses and side effects of domperidone.
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