

Time: 3 Hours

Total Marks: (75)

Q I. Choose the ONE best answer and write it down

20 Marks

1. Montelukast inhibits _____ receptors.

- A. Histamine
- B. Leukotriene
- C. PAF
- D. Bradykinin

2. The first choice drug for nonsteroidal antiinflammatory drug-induced gastric ulcer is:

- A. Ranitidine
- B. Omeprazole
- C. Sucralfate
- D. Misoprostol

3. Which of the following is an example of Osmotic Purgative?

- A. Psyllium
- B. Phenolphthalein
- C. Lactulose
- D. Ispaghula

4. The following 5HT₃ antagonist is used as anti-emetic?

- A. Hyoscine
- B. Ondansetron
- C. Haloperidol
- D. Chlorpromazine

5 Cotrimoxazole is a combination of:

- A. Sulphadoxine + Trimethoprim
- B. Sulphamethoxazole + Pyrimethamine
- C. Sulphamethoxazole + Trimethoprim
- D. Sulphamethoxazole + Ictaprim

6. Which of the following antibiotic may cause tooth discoloration as a side effect?

- A. Tetracycline
- B. Penicillin
- C. Sulphonamides
- D. Macrolides

7. Which of the following drugs is penicillinase resistant:

- A. Oxacillin
- B. Amoxicillin
- C. Bicillin-5
- D. Penicillin G

8. Cephalosporins are drugs of choice for treatment of:

- A. Gram-positive microorganism infections
- B. Gram-negative microorganism infections
- C. Gram-negative and gram-positive microorganism infections, if penicillins have no effect
- D. Only bacteroid infections

9. The anthelmintic drug piperazine:

- A. Inhibits tubulin polymerization
- B. Acts as a GABA agonist to paralyze the worms
- C. Inhibits glucose uptake
- D. Uncouples oxidative phosphorylation

10. A side effect of ethambutol is

- A. Neurotoxicity
- B. Nausea, vomiting and diarrhea
- C. Hypersensitivity and urticarial
- D. Loss of color vision due to optic neuritis

11. Which of the following is Phenazine derivative used for the treatment of leprosy?:

- A. Clofazimine
- B. Dapsone
- C. Ethionamide
- D. Rifamycin

12. Nevirapine belongs to _____:

- A. Non-Nucleoside reverse transcriptase inhibitor
- B. Nucleoside reverse transcriptase inhibitor
- C. Protease Inhibitor
- D. Non-selective antiviral drug

13. The antineoplastic agent that is classified as an alkylating agent is:

- A. Vincristine
- B. Tamoxifen
- C. Bleomycin
- D. Busulfan

14. Sirolimus is inhibitor of _____:

- A. Calcineurin
- B. Choline Esterase
- C. m-TOR
- D. Protease

15. Which of the following antineoplastic drug is a mitotic inhibitor and causes metaphase arrest?

- A. Busulfan
- B. Vincristine
- C. Cytarabine
- D. Procarbazine

16. The BCG vaccine contains:

- A. Attenuated culture of *Mycobacterium tuberculosis*
- B. Live culture of *Mycobacterium leprae*
- C. Attenuated culture of *Mycobacterium bovis*
- D. Killed culture of *Mycobacterium tuberculosis*

17. A drug used for the treatment of organophosphorus poisoning is:

- A. Parathion
- B. Malathion
- C. Pralidoxime
- D. Phenytoin

18. Melatonin plays a role in:

- A. Sleep cycle
- B. Hunger
- C. Digestion
- D. Growth

19. Which of the following toxicity can occur due to single exposure?

- A. Acute toxicity
- B. Sub-acute toxicity
- C. Sub-Chronic toxicity
- D. Chronic toxicity

20. A selective antidote for organophosphate poisoning is

- A. Fentanyl
- B. Pralidoxime
- C. Codeine
- D. Methadone

Q.II Answer ANY TWO of the following

20 M

1. Classify anti-ulcer drugs with examples. Explain the detailed pharmacology of proton pump inhibitors.
2. Classify penicillins with examples. Explain the mechanism of action of beta lactam antibiotics and add a short note on resistance development against beta lactam antibiotics.
3. Write a short note on treatment of amoebiasis.

Q.III Answer ANY SEVEN of the following

35 M

1. Explain any two classes of drugs used in the treatment of inflammatory bowel disease
2. Write a short note on bulk laxatives.
3. Write a short note on the mechanism of action and adverse effects of sulphonamides.
4. Write a note on the mechanism of action, adverse effects and uses of 4-aminoquinoline drugs.
5. Write a note on the mechanism of action, adverse effects and uses of rifampin.
6. Classify anticancer agents with two examples of each class.
7. Write a note on Calcineurin inhibitors.
8. Write a short note on genotoxicity.
9. Describe the symptoms and management of lead poisoning.
