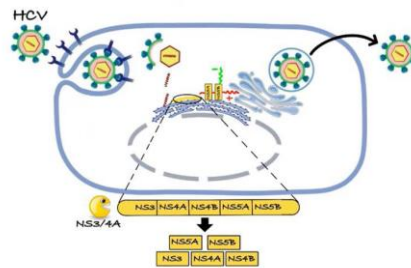




Subject: Pharmacology

- 1- Define Chemoprophylaxis, then mention the conditions in which chemoprophylaxis is necessary.
- 2- Antimicrobial drugs exhibit various concentration- and time-dependent effects, enumerate them, and what are their effects on antimicrobial drugs.)
- 3- Referring to the figure below: Mention the two proteins which are an important target of anti-hepatitis C drugs, their function, and the antiviral drugs that inhibit them.



- 4- Write about the followings:
 - A-** A condition now commonly seen in hospitals and nursing homes that arises from superinfections.
 - B-** Plasmid-Mediated Drug Resistance
 - C-** The CDKR with giving examples of drugs.
- 5- Mention the side effects of these drugs:
 - 1- Penicillins 2- Tetracyclines 3- Aminoglycosides
- 6- Write the mechanism of action for the following drugs:
 - a- Glycopeptides b- Macrolides

- 7- Write why chloramphenicol is usually used only when no other alternatives are available.
- 8- Mycoplasma is inherently resistant to penicillin, why?
- 9- Clarify why Carbapenems usually is prescribed in synergistic combination with cilastatin.
- 10- Describe with a diagram the effect of acyclovir on not infected cell (with normal thymidine kinase) and in a virally infected cell (the thymidine kinase is altered)
- 11- What are Special Considerations in the treatment of parasitic worm infestations?
- 12- Explain the mechanism of *Plasmodial* nutrition and how Chloroquine kills the organism
- 13- What are the mechanisms of action of Anthelmintic Drugs, In general?
- 14- Describe by a diagram, how Sulfa drugs block folic acid production.
- 15- Explain the mechanism of *Plasmodial* nutrition and how Chloroquine kills the organism.
- 16- What are macrolides? When they are used? Write the mechanism of action and side effects.
- 17- Mention the advantages of drug combinations.
- 18- Choose the correct answer**
 - A- Levofloxacin is an example of**
 - a- Narrow antibacterial spectrum
 - b- Antibacterial against G^{+ve} bacteria
 - c- Antibacterial against G^{-ve} bacteria
 - d- Broad-spectrum antibiotics
 - B- Acetyl transferases, inactivate**
 - a- Chloramphenicol
 - b- Beta-lactam antibiotics
 - c- Aminoglycosides
 - d- Penicillin
 - C- Trimethoprim and sulfamethoxazole are examples of that blocksynthesis.**
 - A- Sulfonamides; PABA
 - B- Penicillins; cell wall
 - C- Sulfonamides; folic acid
 - D- Macrolides; protein

D- It has emerged as a key treatment in therapy for MRSA

- a- Vancomycin
- b- Neomycin
- c- Gentamicin
- d- Streptomycin

E- All about bacitracin is true, *except*

- a- It is a polypeptide antibiotic
- b- Derived from *Bacillus subtilis*
- c- Block cell wall formation
- d- It is broad-spectrum antibiotic

19- Define Trichomoniasis, the causative agent, drug of choice and the side effects of the drugs.

20- What are the common adverse effects of anthelmintic drugs?

21- **Which antiretroviral drug belongs to the HIV protease inhibitor class?**

- A. Atazanavir
- B. dolutegravir
- C. Abacavir
- D. Doravirine

22- Why are laxatives administered as adjunct medication in treating parasitic worm infestations?

23- Name a drug inhibits the fungal nucleic acid, how it administered, its mechanism of action and why human cells not affected by this drug?

24- What are the main uses, adverse effects, and drug interactions associated with the aminoglycosides?

25- List some of the drugs used in the treatment of tuberculosis (TB).