

1. Which of the following antibiotic acts by inhibition of nucleic acid synthesis?

- A. Penicillin
- B. Quinolones**
- C. Sulphonamides
- D. Cephalosporins

2. Following are the second-generation Quinolones except

- A. Gatifloxacin
- B. Enoxacin
- C. Sparfloxacin
- D. Ciprofloxacin**

3. The mechanism of action of Trimethoprim is

- A. Inhibition of enzyme Dihydropteroate Synthetase**
- B. Activation of enzyme Dihydrofolate Reductase
- C. Inhibition of enzyme Dihydrofolate Reductase
- D. Activation of enzyme Dihydrofolate Reductase

4. All of the following combinations are true except:

- A. Ciprofloxacin: Inhibition of DNA Gyrase
- B. Polymyxin B: Inhibition of 50s protein synthesis**
- C. Erythromycin: Inhibition of 50s protein synthesis
- D. Sulphonamide: Inhibition of folic acid

5. Co-trimoxazole is a combination of drugs

- A. Sulphonamide + Chloramphenicol
- B. Sulphonamide + Lincomycin
- C. Sulphonamide + Trimethoprim**
- D. Sulphonamide + Tetracycline

6. Following adverse effects are shown by the corresponding drugs are true except
- A. Chloramphenicol: gray baby syndrome
  - B. Cefoperazone: Disulfiram-like reactions
  - C. Tetracycline: Fanconi syndrome
  - D. Sulphonamide: Red man syndrome**
7. Prolonged therapy of ..... leads to the development of Pseudo membranous Colitis
- A. Amikacin
  - B. Clindamycin**
  - C. Streptomycin
  - D. Vancomycin
8. Which of the following drug acts by binding to the fungal ergosterol and altering its cellular permeability ?
- A. Ketoconazole
  - B. Griseofulvin
  - C. Clotrimazole
  - D. Amphotericin B**
9. Which antifungal acts by non-competitive inhibition of squalene epoxidase thereby inhibition of ergosterol synthesis
- A. Flucytosine
  - B. Griseofulvin
  - C. Terbinafine**
  - D. Ketoconazole
10. Gynaecomastia and menstrual irregularities are the adverse effects of .....
- A. Terbinafine
  - B. Flucytosine
  - C. Griseofulvin
  - D. Ketoconazole**

11. Flucytosine acts by

- A. Inhibition of Thymidylate Synthetase leading to inhibition of DNA synthesis
- B. Disruption of the mitotic spindle during metaphase by interacting with fungal microtubules
- C. Inhibition of squalene epoxidase and blocks ergosterol formation in the cell membrane
- D. Binding with the fungal DNA Gyrase enzyme

12. Following actions are true for Alkylating agents except : These drugs exert cytotoxicity by inducing:

- A. Breakage of DNA strand
- B. Cross linking of DNA strands
- C. Abnormal pairing of Purine and Pyrimidine bases
- D. Inhibition of DNA Isomerase

13. Vinca alkaloids exert antitumor activity by:

- A. Activating Topoisomerase II to cause breaks in DNA strands
- B. Cross linking DNA strands
- C. Inhibiting DNA mediated RNA synthesis
- D. Inhibiting polymerization of tubulin to form intracellular microtubules

14. The mechanism of action of Rifampicin involve

- A. Inhibition of bacterial DNA directed RNA polymerase
- B. Inhibition of Mycolic acid synthesis
- C. Inhibition of protein synthesis
- D. Inhibition of Transpeptidase

15. Select the drug which is used exclusively in organ transplantation and Auto-immune diseases, but not in cancers:

A. Cyclophosphamide

B. Cyclosporine

C. Methotrexate

D. 6-Mercaptopurine

16. Which one of the following agents is not used in oral or implantable contraceptives?

A. Clomiphene

B. Ethinyl estradiol

C. Mestranol

D. Norethindrone

17. The thyroid gland normally secretes which of the following substances into the serum?

A. Diiodothyronine (DIT)

B. Thyrotropin (Thyroid-stimulating Hormone)

C. Thyroxine (T4)

D. Thyroglobulin

18. The drug used for cervical smoothing to facilitate labour is:

A. Oxytocin

B. Stilboestrol

C. Progesterone

D. Prostaglandin

19. Which one of the following drugs is recommended as a single agent for oral treatment of uncomplicated malaria due to Chloroquine-resistant P falciparum strains?

- A. Doxycycline
- B. Iodoquinol
- C. Primaquine

D. Quinine

20. Which of the following Anti-malarial drugs causes a dose-dependent toxic state that includes flushed and sweaty skin, dizziness, nausea, diarrhoea, tinnitus, blurred vision, and impaired hearing?

- A. Amodiaquine
- B. Sulfadoxine
- C. Pyrimethamine

D. Quinine

21. Metronidazole is used for:

- A. Giardiasis
- B. Hook worm infestation
- C. Kala-azar
- D. Round worm infestation

22. Intravenous injection of quinine produces:

- A. Rise in blood pressure
- B. Neuromuscular block
- C. Hyperglycaemia
- D. Hypoglycaemia

23. Which of the following classes of compounds stimulates the release of insulin from pancreatic  $\beta$ -cells?

- A. Sulfonylureas
- B. Biguanides
- C.  $\alpha$ -Glucosidase inhibitors
- D. Thiourylenes

24. Insulin preparations that contain a modifying protein include:

- A. Lente Insulin
- B. Regular Insulin
- C. Isophane Insulin (NPH)
- D. Semilente Insulin

25. Which of the following Glucocorticoids produces the least sodium retention?

- A. Corticosone
- B. Hydrocorticosone
- C. Prednisolone
- D. Dexamethasone

**SUBJECT –IN-CHARGE**

1. Ms. V.N.Garge
2. Dr. S.A.Agrawal