



Answer the following questions

Question No. 1 (Choose the most accurate answer) 30 Mark

Chloramphenicol is particularly effective in the treatment of

- a) Diphtheria
- b) Typhoid fever
- c) Emphysema
- d) Streptomyces pyogenes infections

Therapeutic I
dr mahmoud taleb
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An example of a disease of skin, of bacterial infection, and characterized by crust and lesions and may be bullus type.

- a) Acne
- b) Impetigo
- c) Tinea capities
- d) Herpes Zoster.

All of the following nonprescription agents have been classified as safe and effective for acne EXCEPT

- a) Azelieic acid
- b) Benzoyl peroxide
- c) Ketoconazole
- d) Retinoic acid.

Which of the following statements about ertapenem is accurate?

- a) It is bacteriostatic
- b) It is narrow spectrum antibiotic
- c) It is not susceptible to penicillinase
- d) It has the advantage of oral bioavailability

The appearance of markedly vacuolated, nucleated red cells in the marrow, anemia, and reticulocytopenia are characteristic dose-dependent side effects of

- a) Azithromycin
- b) Chloramphenicol
- c) Clindamycin
- d) Doxycycline

6. Your 23-year-old female patient is pregnant and has gonorrhoea. The past medical history includes anaphylaxis following exposure to amoxicillin. Worried about compliance, you would like to treat this patient with a singly dose, so you chose

- a) Cefixime
- b) Ceftriaxone
- c) Ciprofloxacin
- d) Spectinomycin

7. Which fluoroquinolone has markedly enhanced activity against gram positive bacteria and anaerobes ?

- a) Pefloxacin
- b) Ciprofloxacin
- c) Gatifloxacin
- d) Norfloxacin

8. Piprazine citrate an antihelminthic drug is effective for hook worm , acts by

- a) stimulating nicotinic receptor in neuromuscular ; junction.
- b) by blocking acetylcholine at the myoneural junction
- c) Inhibition of glucose uptake
- d) Inhibition of protein synthesis

9. The drug of choice for treatment of methicillin resistant Staphylococcus aureus infection is

- a) Cloxacillin
- b) Amikacin
- c) Erythromycin
- d) Vancomycin

10. Which one of the following statements about ampicillin is false?

- a) Its activity is enhanced by sulbactam
- b) It causes maculopapular rashes
- c) It is the drug of choice for Listeria monocytogenes infection
- d) It eradicates most strains of MRSA

11. Teicoplanin has the following unwanted effects:

- a) Pseudomembranous colitis
- b) Hepatotoxicity
- c) "Red neck" syndrome, phlebitis
- d) All of the above

12. All of the following antibiotics act through inhibition of protein synthesis Except

- a) Linezolid
- b) Azteronam
- c) Clindamycin
- d) Tetracycline.

13. Which of the following groups of antibiotics demonstrates a bacteriostatic effect:

- a) Carbapenems
- b) Macrolides
- c) Aminoglycosides
- d) Cephalosporins

14. A 20-year old male has a urethral discharge. Culture of the discharge show Neisseria gonorrhoea. Which of the following agents is the best choice

- a) Ofloxacin
- b) Clarithromycin.
- c) Imipenem.
- d) Amikacin.

15. Antibiotic inhibiting bacterial DNA synthesis is:

- a) Erythromycin
- b) Rifampin
- c) Chloramphenicol
- d) Imipinem

16. Which one of the following compounds is used topically to treat scabies and pediculosis?

- a) Permethrin
- b) Mupirocin
- c) Nitrofurazone
- d) Polymyxin B

17. The mechanism of action of metronidazole which is effective for treatment of amebic disease is

- a) Interference of cell- wall synthesis.
- b) Interference with cell division.
- c) Inhibition of DNA synthesis.
- d) Inhibition of glucose uptake.

18. The drug of choice for treatment of Trichomonas vaginalis

- a) Praziquantel
- b) Ceftriaxone
- c) Tinidazole
- d) Membendazol

19. All of the following antifungal drugs are used orally EXCEPT

- a) Ciclopirox
- b) Itraconazole
- c) Terbinafine
- d) Grisofulvin

20. Metronidazole used in treatment the following diseases EXCEPT:

- a) Pseudomembranous colitis
- b) Helicobacter pylori infections
- c) Giardiasis
- d) Mouth candidiasis

21. The drug of choice for treatment of Rocky mountain spotted fever

- a) Praziquantel
- b) Ceftriaxone
- c) Metronidazole
- d) Doxycycline

22. Mechanism of Ethambutol action is:

- a) Inhibition of mycolic acids synthesis
- b) Inhibition of RNA synthesis
- c) Inhibition of cell wall synthesis
- d) Inhibition of pyridoxalphosphate synthesis

23. What is a result of conjugation of isoniazid via N-acetylation?

- a) Detoxification of blood
- b) Peripheral neuritis
- c) Hepatotoxicity
- d) Alopecia

24. Grisofulvin is a widely used antifungal agent that acts through inhibition of fungal mitosis and used clinically in the management of

- a) Systemic fungal infection.
- b) Nail dermatophyte.
- c) Oropharyngeal candidiasis
- d) Non of the above

Which of the following drugs are suitable oral therapy for a lower urinary tract infection due to *Pseudomonas aeruginosa*? EXCEPT

- a) Fluxacillin
- b) Ciprofloxacin
- c) Co-trimoxazole
- d) Gentamycin

In renal failure' safest tetracycline is

- a) Oxytetracycline
- b) Chlortetracycline
- c) Doxycycline
- d) Demethyl chlortetracycline

Administration of amphotericin B, is beneficial due to its effect on

- a) Systemic fungal infections
- b) Meningitis
- c) Syphilis
- d) Acne rosacea

Benzylpenicillin is not used orally because

- a) It is destroyed by acid in stomach and absorption is also incomplete
- b) It is well absorbed from intestine but is unpredictable
- c) It produces severe diarrhoea on oral administration
- d) All of the above

A 36-year-old woman recently treated for leukemia is admitted to hospital with malaise, chills and high fever. Gram stain of blood reveals the presence of gram negative bacilli. The initial diagnosis is septicemia and parenteral antibiotics are indicated. The records of the patient reveal that she had severe urticarial rash, hypotension, and respiratory difficulty following oral penicillin V about 2 months ago. The most appropriate drug regimen for empiric treatment is

- a) Ampicillin plus sulbactam
- b) Imipenem plus cilastatin
- c) Cefazolin
- d) Aztreonam
- e) Ticarcillin plus clavulanic acid

- 30. Antibiotics altering permeability of cell membranes are:**
- Glycopeptides
 - Polymyxins
 - Tetracyclines
 - Cephalosporins
- 31. Mechanism of Rifampin action is:**
- Inhibition of mycolic acids synthesis
 - Inhibition of DNA dependent RNA polymerase
 - Inhibition of topoisomerase II
 - Inhibition of cAMP synthesis
- 32. Which of the followings is true of sulfonamides ?**
- They are primarily act by competitive inhibition to folic acid
 - They are more likely to produce crystalluria in alkaline urine in which they are less soluble
 - They may exert bactericidal action .
 - Devoid of side effects
- 33. Which of the following antibiotics penetrates blood-CSF barrier the best**
- Cefotaxime
 - Gentamicin
 - Tetracycline
 - Erythromycin
- 34. Important microbiological features of ciprofloxacin include the following except**
- Long postantibiotic effect
 - Marked suppression of intestinal anaerobes
 - Concentration dependent killing
 - Slow development of resistance
- 35. Which one of the following antibiotics is a potent inducer of hepatic drug-metabolizing enzymes?**
- Ciprofloxacin
 - Cyclosporine
 - Erythromycin
 - Rifampin
- 36. The mechanism of antibacterial action of Doxycycline involves**
- Binding to a component of the 50S ribosomal subunit
 - Inhibition of translocase activity
 - Blockade of binding of aminoacyl - tRNA to bacterial ribosomes
 - Selective inhibition of ribosomal peptidyl transferase

Question No. II

Write true or false and correct the false.

20Mark

- 1- () Ototoxicity is the main side effect, limited use of Linezolid antibiotic in children.
- 2- () Niclosamide an anthelmintic drug is effective for hook worm, acts by inhibiting neuromuscular transmission.
- 3- () Ivermectin can be effective drug in treatment for conjunctivitis.
- 4- () Terbinafine is specifically used in treatment of Impetigo
- 5- () Chlamydial conjunctivitis is a viral disease of eye can be treated by acyclovir.
- 6- () Alcohol intolerance can be noted in association of administering praziquantel antihelminthic.
- 7- () Paromomycin acts by inhibition of bacterial cell wall integrity and used in trypanosomiasis
- 8- () Naftifine is an antibiotic used orally.
- 9- () Iodoquinol is one of drugs used in treatment of malaria
- 10- () Meningitis caused by streptococcus pneumonia can be treated by erythromycin
- 11- () Cartilage toxicity is the main side effect limited use Linezolid in pregnancy.
- 12- () Amikacin antibiotic is characteristic for causing pseudomembranous colitis.
- 13- () Methenamine effective against gram positive cocci at acidic pH.
- 14- () In treatment a patient suffering from infection of Giardiasis, one of the drug of choice is mebendazole
- 15- () Telithromycin is preferred drug due its high bioavailability.
- 16- () Nystatin antifungal drug, acts by inhibiting protein synthesis.
- 17- () The drug of choice for vulval itching of vaginal candidiasis infection is tinidazole.
- 18- () Mazzotti like reaction is a characteristic side effect of niclosamide.
- 19- () Metallic taste can be noted in administering Metronidazole
- 20- () Spectinomycin acts by inhibition of bacterial cell wall integrity.
- 21- () Acne rosacea is treated efficiently by miconazole gel.

Question No. III

Substitute of the statement by a word or a term.

- 1- An example of sulfa drug specifically used for malaria.....
- 2- Drug used in in treatment of liver abscess but its use is limited due to its cardio toxicity and painful injection.....
- 3- Structurally related to the sulphonamides , and it is a drug of choice of leprosy.....
- 4- An a antibiotic of protein synthesis inhibitors family used for treatment impetigo caused by resistant types of staphylococcus specially that resistant to penicillins.....
- 5- Is an infection of the cornea , resulting from infection from contact lenses or from injury to eye usually develops very quickly and if left untreated, can cause blindness
- 6- It used topically. It interferes with DNA synthesis in some of bacteria associated with acnevulgaris , used acid in the form of cream is effective for papules and pustules of the acne.....
- 7- One of the species of penicillin and have superior activity against *P. aeruginosa* and are useful for treatment of infections with *Klebsiella*.....
- 8- Serious bleeding related either to hypoprothrombinemia, thrombocytopenia, and/or platelet dysfunction has been reported with cefalosporins as
- 9- It is used as a single oral dose in the treatment of uncomplicated urinary tract infection in women and it is safe in pregnancy.....
- 10-A drug that inhibits the degradation of imipenem by a renal tubular dipeptidase.....
- 11- Respiratory disease that primarily affects adults. As a result of several contributing factor affect lung paranchyma, manifested as fever , malaise, cough with purulent sputum.....
- 12-The pilosebaceous follicle starts to dilate and starts to be filled with entrapped sebum and cellular debris and results in characteristic lesion of acne.....
- 13- Drug inhibits fungal growth by binding to the microtubules responsible for mitotic spindle formation, as the drug inhibits fungal mitosis. Ineffective topically and administered orally but poor gastrointestinal absorption; absorption can be improved by taking the drug with fatty meals.....
- 14- A type of urinary tract infection in the absence of urinary symptoms, are found to have consecutive urine cultures with more than 10^5 organisms/mL of the same organism. Most patients are elderly , female. and pregnant women.....

Agents have been classified as safe and effective for acne and it acts by increase turnover of cells and decrease cellular cohesiveness and used in two concentration 0.25 and 0.5 in market.....

Contagious bacterial skin infection with blisters not crust on the face, neck, and hands and it one of the most common skin infections among kids.....

Drug of choice can be used for treatment shistosomal haematobium and shistosomal mansoni infection.....

A side effect appeared largely in patient of slow acetylation administered isoniazide.....

Drug used to decrease production of ammonia in G. I. T in patient suffering from liver cirrhosis.....

Drug used in combination with INH, to prevent and minimized some adverse effects of INH as peripheral neuritis.

Drug of quinolone derivative and specifically for respiratory infection.....

Drug of carbapenem family and having a larger serum half-life and by having inferior activity against *P. aeruginosa*

A glycopeptide antibiotic that is very similar to vancomycin in mechanism of action and antibacterial spectrum but it is longer duration.....

Drug of choice in treatment of River blindness disease.....

Antibiotic is active against many gram-positive and selected gram-negative bacteria and, inhibits bacterial protein synthesis by reversible binding and inhibition of certain transfer-RNA synthetase. - It is for topical use skin lesions secondarily infected with *S. aureus*

pyogenes.....

Drug used in patient with INH-resistant, and initiated in latent T.B.....

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Question No. IV

Write the cause , ONE drug of choice of the following diseases.

Disease	Cause	Drug of choice
1-Toxigenic Diarrhea		
2- Recurrent otitis media		
3-Chronic sinusitis in pregnant, penicillin sensitive women		
4- Internal Eye stye		
5- Trichinosis		
6- 18- year of female with infective endocarditis		
7- Toxoplasmosis of pregnant women		
8- chronic prostatitis		
9 -Meningitis needed to treated for 4-5 week		
10- year of male with aspirated pneumonia		
11- Trichinosis		

Question No. V

(10 pts)

Match the drugs in the column (A) with the correct answer in column (B)

Column (A)	Column (B)
Fluticasone	() is the first choice for sinusitis
Cefuroxime	() is second generation cephalosporins
Ceftriaxone	() an antibiotic used as single dose in treatment of syphilis
Pyrazinamide	() an antibiotic considered of microsomal enzyme inhibitor
Cough, fever, small amount of sputum	() One of treatment of Leprosy
Penicillin G	() the main activity for this new drug against MRS
Pentamidine	() The most prominent side effect is disturbance taste and vision and liver enzymes.
Ceftriaxone	() these are main manifestation of acute bronchitis
Fever, Headache, Stiff neck, photophobia, Vomiting and photophobia	() Used in treatment of visceral leishmaniasis
Azithromycin	() The main side effect of this drug is hyperurecemia and liver impairment
Terbinafine	() these are main manifestation of meningitis

Good Luck
Dr. Mahmoud H. Taleb