

KATHMANDU UNIVERSITY
End Semester Examination [C]
April/May 2023

Marks Scored:

Level : B.Pharm.
Year : III

Course : PHAR 320
Semester : I

Exam Roll No.: Time: 30 mins.

F. M. : 20

Registration No.:

Date : 2: 8 APR 2023

SECTION "A"

[20Q. × 1 = 20 marks]

Encircle the most appropriate alternative from each set of choices.

- Growth hormone promotes growth by all of the followings except
 - Inducing hyperplasia
 - Fat utilization for energy
 - Retention of nitrogen
 - Increase uptake of glucose by muscle
- The first line of oral hypoglycemic drug for obese patient would be
 - Sulfonylureas
 - Biguanides
 - Meglitinide
 - Glitazone
- All of the followings are uterine stimulant except
 - Ethacridine
 - Misoprostol
 - Ergometrine
 - Atosiban
- Drug of choice for pneumocystis pneumonia
 - ciprofloxacin
 - trimethoprim- sulfamethoxazole
 - daptomycin
 - none of above
- Dose of ciprofloxacin for treatment of urinary tract infection is
 - 250- 500mg BD for 7 days
 - 750mg BD for 3 days
 - 750mg BD for 7 days
 - 500- 750mg BD for 7 days
- Concurrent administration of iron & zinc preparation can interfere with the absorption of this drugs
 - sulfamethoxazole
 - nitrofurantoin
 - polymyxin B
 - ciprofloxacin
- All of the following about Metronidazole is true except
 - Drug of choice for extraluminal amebiasis
 - Kill trophozoites but not cyst
 - Completely absorbed after oral administration
 - Is selectively toxic to aerobic bacteria
- Which of the anthelmintics activates nicotinic receptor in *Ascaris lumbricoides*?
 - Pyrantel
 - Ivermectin
 - Albendazole
 - Praziquantel
- Gonorrhoea caused by penicillinase producing organism can be treated by
 - Ceftriaxone
 - Cefotetan
 - Vancomycin
 - Aztreonam

10. Which of the following drugs is used topically only?
 - a. Amikacin
 - b. Neomycin
 - c. Gentamicin
 - d. Streptomycin
11. Androgen are contraindicated in all of the following except
 - a. Prostate cancer
 - b. Migraine
 - c. Pregnancy
 - d. Muscle wasting
12. All of the following side effects are seen due to insulin except
 - a. Hypoglycemia
 - b. Lipodystrophy
 - c. Urticaria
 - d. Anorexia
13. One of the following drugs is suitable to treat the symptoms of Addison's disease
 - a. Prednisolone
 - b. Fludrocortisone
 - c. Dexamethasone
 - d. Metyrapone
14. Bactericidal
 - a. Kills the bacteria
 - b. Inhibit metabolic reaction
 - c. Number of microorganisms remains constant
 - d. Inhibit protein synthesis
15. It is poorly absorbed sulfonamide
 - a. sulfisoxazole
 - b. sulfasalazine
 - c. sulfacetamide
 - d. sulfadoxime
16. These microorganisms are highly susceptible to ciprofloxacin except
 - a. E. coli
 - b. S. typhi
 - c. Strep. Pneumoniae
 - d. H. influenza
17. One of the following is urinary tract antiseptics
 - a. gentamicin
 - b. methinamine
 - c. lomefloxacin
 - d. nitrofurantoin
18. It is an injectable antitubercular drug
 - a. amikacin
 - b. rifampin
 - c. pyrazinamide
 - d. ethambutol
19. Testosterone shows following characteristics except
 - a. Inactive orally
 - b. 98% plasma protein bound
 - c. $T_{1/2} = 1-2$ hours
 - d. Metabolites are excreted in urine
20. Which of the following is the first choice of drug to treat trematode infestations
 - a. Piperazine
 - b. Praziquantel
 - c. Pyrantel
 - d. Niclosamide

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28 APR 2023

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SECTION "B"

[5Q. × 3 = 15 marks]

Attempt *ANY FIVE* questions.

1. Name any three anabolic steroids .What are its uses and side effects.
2. Elaborate the drug 5- α reductase inhibitor.
3. Classify synthetic progestin and give its pharmacokinetics, uses and adverse effects.
4. Differentiate between the bacteriostatic & bactericidal drugs. List out the factors that governs selection of antimicrobial agents.
5. Write down the mechanisms of development of drug resistance of sulfonamide.
6. List out the most common adverse effects associated with the use of cytotoxic drugs.
7. Write in brief about clindamycin.

SECTION "C"

[5Q. × 5 = 25 marks]

Attempt *ANY FIVE* questions.

8. Give an account on leprosy. Classify antileprotic drugs. Elaborate on the drug dapsone.
9. Elaborate aldosterone and its synthetic preparations along with its mechanism of action, kinetics, uses, doses and adverse effects.
10. Why is L-thyroxine preferable to liothyroxine? Discuss different conditions in which L-thyroxine can be used along with its dose. Classify thyroid inhibitors.
11. Explain the mechanism of action, therapeutic indication & adverse effects of fluroquinolones.
12. Write down the mechanism of action of chloroquine along with its side effects? Give any one dosages regiment for treatment of chloroquine sensitive malaria & chloroquine resistant malaria.
13. Explain the mechanism of action & adverse effects of metronidazole. Why this drug shouldn't be taken with alcohol? Give a mechanism of toxicity.
14. Classify the azoles group of antifungal drugs. Write down the mechanism of action, therapeutic indication of fluconazole along with its merits and demerits.

SECTION "D"

[2Q. × 7.5 = 15 marks]

Attempt *ANY TWO* questions.

15. How can type II Diabetes Mellitus be managed? Explain different types of insulin regimen. Explain how glitazones acts as hypoglycemic.
16. What is tuberculosis? Classify the drugs used to treat tuberculosis with an example. State the mechanism of action, kinetic characteristics, dose, and adverse effect of Isoniazid. How tuberculosis can be treated in category I, II patients & pregnant women. Give its treatment regimen.
17.
 - A. Explain in detail about the mechanism of action of the penicillin. Classify the cephalosporin with at least two example of each group. [3.5]
 - B. How does aminoglycoside produce a bactericidal effect? Mention the symptoms observed in gray baby syndrome? [4]