

M.Sc. Examination, 2016

Semester-I

Animal Science (Poultry)

Course: PSC-512

(Applied Pharmacology and therapeutics in Poultry Production)

Time: Three Hours

Full Marks: 50

Questions are of value as indicated in the margin.

Answer any five questions

1. Explain why: 5×2=10
 - a) Sulfonamide is contraindicated in layer bird.
 - b) Doxycycline and neomycin cannot be used simultaneously.
 - c) Clavulanic acid potentiates penicillin.
 - d) Tiamulin and ionophores should not be concurrently included as feed additives in poultry.
 - e) Clopidol has very poor or negligible therapeutic value in avian coccidiosis.

 2. Write the source of the followings 5×2=10
 - (i) Monensin (ii) Penicillin (iii) Streptomycin (iv) Cephalosporin (v) Neomycin

 3. State the mechanism of action of the followings: 2.5×4=10
 - (a) Cotrimoxazole (b) Fluoroquinolone dev. (c) Albendazole (d) Piperazine

 4. Write notes on: 5×2=10
 - (a) Tylosin (b) Lincomycin (c) Endectocide (d) Taenifuge (e) Taenicide

 5. Classify sulfonamides with examples. State the clinical application of sulfonamides in poultry. 10

 6. Discuss the principles of control and treatment of coccidiosis in poultry. 10

 7. Classify tetracyclines with examples. Write the mechanism of action of tetracycline against micro organisms. 10

 8. State the mechanism of action of penicillin against bacteria. Why amoxicillin is broad spectrum antibiotic. 10
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M.Sc. Examination, 2017

Semester-I

Animal Science (Poultry)

Course: PSC-512

(Applied Pharmacology and therapeutics in Poultry Production)

Time: Three Hours

Full Marks: 50

Questions are of value as indicated in the margin.

Answer any five questions out of which Q.no.5 is compulsory

1. Classify the tetracyclines and discuss the mechanism of action, antimicrobial spectrum and clinical application. 10
 2. What are fluoroquinolones? Write the mechanism of action, pharmacokinetics and adverse Effects in poultry. 10
 3. Classify sulphonamides. Discuss the mechanism of action, clinical application in poultry and side effects. 10
 4. Write specific drug with dose and route of administration of the following in poultry 5×2=10
 - a) Sulmonellosis
 - b) Ascariasis
 - c) Chronic respiratory disease
 - d) Coccidiosis
 - e) Aspergellosis
 5. Write notes on: 5×2=10
 - a) Potentiated sulphonamide
 - b) Potentiated amoxicillin
 - c) Benzimidazole derivatives
 - d) Polyether antibiotics (Ionophores)
 - e) Potentiated cephalosporin
 6. Name the anticestodal drugs used in poultry with their merits and demerits. 10
 7. Write down the names of aminoglycoside antibiotics and macrolide antibiotics. State the toxicity of aminoglycoside antibiotics. 10
 8. Enumerate nitrofurantoin derivatives, mechanism of action and clinical use in poultry. 10
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M.Sc. Examination, 2018

Semester-I

Animal Science (Poultry)

Course: PSC-512

(Applied Pharmacology and therapeutics in Poultry Production)

Time: Three Hours

Full Marks: 50

Questions are of value as indicated in the margin.

Answer **any five** questions out of which Q.No.2 is compulsory

1. Define 2×5=10
 - (a) Chemotherapy
 - (b) Antibiotic
 - (c) MIC
 - (d) Potentiated sulfonamide
 - (e) Antimicrobial resistance
 2. Differentiate between 2×5=10
 - (a) Gram positive and Gram negative bacteria
 - (b) Bacteriostatic and bactericidal
 - (c) Aminoglycoside and macrolide antibiotics
 - (d) Taeniacidal and taeniafuge
 - (e) Probenzimidazole and benzimidazole
 3. Classify sulphonamides with examples. State the toxicity of sulphonamides. 5+5=10
 4. Write the merits and demerits of drugs used in poultry coccidiosis. 10
 5. Classify quinolone derivatives with example. Write the mechanism of action and adverse effects of enrofloxacin. 4+6=10
 6. State the drugs used in round worm infection in poultry. Discuss the mechanism of action of albendazole. 6+4=10
 7. State the clinical uses of the followings with dose and route of administration in poultry. 2×5=10
 - (a) Sulphadimidine
 - (b) Amoxicillin
 - (c) Tylosin
 - (d) Doxycycline
 - (e) Gentamicin
 8. Classify the cephalosporins with suitable examples. Write the mechanism of antibacterial action with adverse effects. 4+6=10
 9. State the toxicity of 2.5×4=10
 - a) Chloramphenicol
 - b) Oxytetracycline
 - c) Streptomycin
 - d) Ciprofloxacin
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M.Sc. Examination, 2019

Semester-I

Animal Science (Poultry)

Course: PSC-512

(Applied Pharmacology and therapeutics in Poultry Production)

Time: Three Hours

Full Marks: 50

Questions are of value as indicated in the margin.

Answer **any five** questions out of which Q.No.2 is compulsory

1. Write notes on: 2×5=10
 - a) Principles of Sulfonamide therapy
 - b) Adverse reaction and toxicity of Sulfonamide
 - c) Potentiated Sulfonamide
 - d) Enteric Sulfonamide
 - e) Ideal Sulfonamide

2. Differentiate between 2.5×4=10
 - a) Coccidiostat and Coccidiocidal
 - b) Bacteriostatic and Bactericidal
 - c) Probiotic and Prebiotic
 - d) Penicillinase resistant and Penicillinase inhibitor

3. Classify tetracyclines. Describe their mechanism of action, antimicrobial spectrum and clinical uses in poultry. 10

4. What are fluoroquinolones? Discuss their mechanism of action, pharmacokinetics and uses in poultry. 10

5. Write the source of 2.5×4=10
 - a) Tylosin
 - b) Colistin
 - c) Bacitracin
 - d) Tiamulin

6. Explain why 2.5×4=10
 - a) Tiamulin and ionophores should not be concurrently included as feed additive in poultry.
 - b) Anticoccidials are almost universally used in broiler.
 - c) Use of anticoccidials in layer or breeder birds is not as universal as that of broilers.
 - d) Closidol acts as coccidiostat

7. Define with examples 2×5=10
 - a) Vermifuge
 - b) Vermicide
 - c) Endectocide
 - d) Taenicide
 - e) Taenifuge

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8. Write drug of choice, dose and route of the following 2.5×4=10
- a) Coccidiosis in egg laying hens as curative
 - b) Prophylactic anticoccidial in broilers
 - c) Histomoniasis in poultry
 - d) Typhoid in poultry
9. Discuss the mechanism of action 2.5×4=10
- a) Polyether antibiotics as anticoccidial
 - b) Amoxicillin as antibiotic
 - c) Piperazine as antinematodal
 - d) Praziquantel as anti tapeworm
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M.Sc. Examination, 2020

Semester-I

Animal Science (Poultry)

Course: PSC-512

(Applied Pharmacology and therapeutics in Poultry Production)

Time: Three Hours

Full Marks: 50

Questions are of value as indicated in the margin.

Answer **any five** questions out of which Q.No.4 is compulsory

1. Classify sulfonamide. Describe their mechanism of action, antimicrobial spectra and clinical uses in poultry. 10
 2. Classify tetracyclines. Discuss their mechanism of action, adverse reaction, clinical uses in poultry. 10
 3. What are macrolides? Discuss their mechanism of action, antimicrobial spectra and clinical uses in poultry. 10
 4. Differentiate between 2.5×4=10
 - a) Vermicide and Vermifuge
 - b) Bacteriostatic and Bactericidal
 - c) Agonist and Antagonist
 - d) Penicillinase resistant and Penicillinase inhibitor
 5. Write notes on 2.5×4=10
 - a) Potentiated sulfonamide
 - b) Coccidiostat
 - c) MIC
 - d) Potentiated B-lactam antibiotic
 6. Explain why 2.5×4=10
 - a) Sulfonamide are not effective in pus and necrotic tissue.
 - b) Tetracycline should not be given with milk and dairy products.
 - c) Levamisole act as antinematodal drug.
 - d) Amprolium act as coccidiostat.
 7. Write source of 2×5=10
 - a) Monensin
 - b) Bacitracin
 - c) Neomycin
 - d) Gentamycin
 - e) Nystatin
 8. Define with example 2.5×4=10
 - a) Coccidiostat
 - b) Coccidiocidal
 - c) B-lactam antibiotic
 - d) Ionophores
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M.Sc. Examination, 2021

Semester-I

Animal Science (Poultry)

Course: PSC-512

(Applied Pharmacology and therapeutics in Poultry Production)

Time: Three Hours

Full Marks: 50

Questions are of value as indicated in the margin.

Answer **any five** questions out of which Q.No.2 is compulsory

1. Classify tetracyclines. Describe their mechanism of action, antimicrobial spectrum and clinical uses in poultry. 10
 2. Differentiate between (any four): 2.5×4=10
 - a) Taeniocide and Teaniasuge
 - b) Preventive therapy and therapeutic treatment
 - c) Bacteriostatic and Bactericidal
 - d) Penicillinase resistant and penicillinase inhibitor
 - e) Coccidiostat and coccidiocidal
 3. Classify sulphonamides with example. State the toxicity of sulphonamides. 10
 4. What are fluoroquinolones? Discuss their mechanism of action, pharmacokinetics and uses in poultry. 10
 5. Write short notes on (any four): 2.5×4=10
 - a) Potentiated sulphonamide
 - b) Potentiated penicillin
 - c) Ideal antihelmintic
 - d) Polyether antibiotics
 - e) Enteric Sulfonamide
 6. State the side effect of (any four): 2.5×4=10
 - a) Chlorphenicol,
 - b) Oxytetracycline,
 - c) Streptomycin,
 - d) Emofloxacin,
 - e) Neomycin
 7. Classify cephalosporins with suitable examples. Write the mechanism of action with adverse effect. 10
 8. Write the source of:
 - a) Bacitracin,
 - b) Tiamulin,
 - c) Colistin,
 - d) Tylosin
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M.Sc. Examination, 2022

Semester-I

Animal Science (Poultry)

Course: PSC-512

(Applied Pharmacology and therapeutics in Poultry Production)

Time: Three Hours

Full Marks: 50

Questions are of value as indicated in the margin.

Answer **any five** questions out of which Q.No.8 is compulsory

1. a) Write the principles of chemotherapy. 5
b) Discuss antimicrobial resistance. Discuss plasmid mediated antimicrobial resistance. 5
 2. a) Classify antibiotics with example. 5
b) Write the side effects of aminoglycoside antibiotics. 5
 3. a) Classify antifungal agents with examples. 5
b) Write a note on Azole derivatives as antifungal agent. 5
 4. a) Write the drugs used against round worm infection in poultry. 5
b) State the mechanism of action of piperazine as antinematodal drug. 5
 5. Write notes on potentiated sulfonamide and amoxicillin. 10
 6. Enumerate the antiparasites used in poultry. Write the merits and demerits of Ivermectin. 6+(2+2)=10
 7. Classify cephalosporins with examples. Write mechanisms of action of cephalosporin as antibacterial agent. 10
 8. Write notes on (any four): 2.5×4=10
 - a) Tylosin
 - b) Chlorotetracycline
 - c) Amikacin
 - d) Albendazole
 - e) Ivermectin
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M.Sc. Examination, 2023

Semester-I

Animal Science (Poultry)

Course: PSC-512

(Applied Pharmacology and therapeutics in Poultry Production)

Time: Two Hours

Full Marks: 30

Questions are of value as indicated in the margin.

Answer **any three** questions

1. Write short notes on (answer any four): 2.5×4=10
 - I. Vermicide
 - II. Ivermectin
 - III. Praziquantel
 - IV. Bacitracin
 - V. Azithromycin
 - VI. β -lactammase
 - VII. Cephalexin
 2. Classify fluoroquinolones with example. Describe the mechanism of action and clinical uses of fluoroquinolone in poultry. 10
 3. Describe general mode of action of anthelmintic and properties of ideal anthelminthic. 10
 4. Write the drugs used against protozoal infection in poultry. Write the merits and demerits of azole derivative as antifungal agent. 10
 5. Classify antibiotic. Write the merits and demerits of tetracycline. 10
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