**UNIT-1**

**PHARMACOLOGY-3 QUESTION BANK-6 SEMESTER B PHARMACY**

**1.DRUG ACTING ON RESPIRATORY SYSTEM (5+2+2M)**

**SHORT ESSAYS 5 MARKS**

1. what is bronchial asthma? Classify drug used in its treatment.
2. Mention xanthine derivatives and write their mechanism of antiasthmatic action?
3. Explain mechanism of action, adverse effect and therapeutic uses of selective Beta 2 agonist (salbutamol).
4. Classify antitussive with example. Write their general mode of action and uses.
5. What are mucolytics ? Give example. Write mechanism of action of bromohexine.
6. What are respiratory stimulants? Explain pharmacology of any one.
7. Define respiratory stimulant with examples. Write their mechanism of action and therapeutic uses.

**SHORT ANSWER 2 MARKS**

1. Differentiate between bronchial asthma and COPD.
2. What are the causes of COPD.
3. Name the drug used in COPD.
4. Enlist bronchodilators
5. What are leukotriene antagonist? Give example.
6. Mention mast cell stabilizer.
7. Define expectorant with example.
8. Write uses of expectorant and antitussive?
9. What are difference between expectorant and antitussive?
10. Mention four antitussive agents?
11. What are mucolytics? Give example.
12. What are the adverse effect and uses of bromhexine
13. What are nasal decongestants? Give example.
14. List respiratory stimulants.

**2.DRUGS ACTING ON GASTROINTESTINAL TRACT ( 10+2)**

LONG EASSAYS 10 MARKS

1. Classify anti ulcer agents with example. Write mechanism of action and therapeutics uses of PPIs.
2. Classify antiemetics with example. Explain mechanism of action and uses of domperidome.
3. define antiemetics and classify them with examples. Write the mechanism of action, adverse effects and therapeutic effect of ondansetron?
4. What are prokinetic drugs? Give example. Write the MOA, adverse effect and uses of netoclopramide.
5. Classify laxatives and purgative with example. Write MOA and uses of irritant purgative?
6. What are laxative and purgative? Classify them with example. Write the mechanism of action and uses of saline cathartics.

SHORT ANSWER

1. What are the antacid? Give example.
2. Enlist non systemic antacids
3. What are antacids ? write their uses.
4. Mention four antidiarrheals.
5. What are appetizers? Give example
6. Define carminative with examples
7. What are appetizers? Give example.
8. What are antidiarrhoeal? Give example.
9. What are osmotic purgative? Give two examples.

**UNIT-2**

**3. GENERAL PRINCIPLE OF CHEMOTHERAPY 5+2**

SHORT ESSAYS 5 MARKS

1. Define chemotherapy. Write classification of antibacterial agents.
2. Classify antibiotics on the basis of mechanism of action along with examples.
3. Write chemical classification of antimicrobial agents with example.
4. Define chemoprophylaxis. Write briefly on types of chemoprophylaxis along with example.
5. Example rational behind combined therapy of antimicrobial agents with examples.
6. Write a note on causes and prevention of antimicrobial resistance.
7. Explain mechanism of antimicrobial resistance.

SHORT ANSWER 2 MARKS

1. Four classes of antibiotics acting by inhibiting cell wall synthesis.
2. Mention four class of antibiotics acting by inhibiting protein synthesis.
3. Define bacteriostatic and bactericidal agents with example.
4. Mention mechanism of development of anti microbial resistance.
5. What are probiotics? Give example.
6. What are preprobiotics? Give example.
7. Give four reason for combined uses of antibiotics.
8. What are superinfection? Give example.

**4. ANTIBIOTICS AND ANTIMICROBIAL AGENTS 10+5**

LONG ESSAYS 10 MARKS

1. Classify sulphonamides with example. Describe their mechanism of action and uses.
2. What are sulphonamides? Classify then with examples. Write the mechanism of action and uses of co-trimoxazole.
3. Classify penicillins. Write mechanism of action, adverse effects and uses of penicillin-G.
4. Classify semi synthetic penicillin with example? Discuss antimicrobial spectrum, mechanism of action and uses of ampicillin.
5. What are cepphalosporins? Classify them with examples. Write their mechanism of action, adverse reactions and therapeutic uses.
6. Write sources. MOA, adverse effect and therapeutic uses of tetracyclines.
7. What are aminoglycoside antibiotics? Write the antimicrobial spectrum, MOA, adverse action and therapeutics uses of streptomycin.
8. What are macrolides? Give examples. Discuss their antimicrobial spectrum, MOA, and therapeutic uses.

SHORT ESSAYS 5 MARKS

1. What are sulphonamides? Classify them with example.
2. Write MOA and merits of colrimoxazole.
3. What are MOA and uses of penicillins.
4. What MOA and uses of streptomycin.
5. What are broad spectral antibiotics? Give example. Write MOA of chloramphenicol.
6. Classify tetracyclines with example. Example why tetracycline causes discoloration of teeth.
7. What are polyene antibiotics? Give examples. Enlist their therapeutic uses.
8. Classify fluoroquinolones with example and write their MOA ofloxacin.
9. Write the mode of action and therapeutic uses of fluoroquinolones.
10. Write briefly pharmacology of dapsone and clofazimine.

**UNIT-3**

**5. CHEMOTHERAPY OF DISEASES**

**LONG EASSY 10 MARKS**

1. Classify antifungal agents with example. Write MOA, adverse effect and uses of amphotericin-B.
2. Classify antifungal agents with example. Write MOA, adverse effect and uses of triazoles.
3. Classify antifungal agents with example. Discuss anti-fungal spectrum, MOA, and uses of systemic triazoles.
4. Classify antitubercular agents. Explain MOA of INH and Rifampicin.
5. What is DOTS? Classify anti TB drugs with examples. Write the MOA, adverse effect and uses of INH.
6. Classify antiamoebic agents with examples. Write MOA, adverse effect and uses of metronidazole.
7. Name the causative organism of malaria. Classify antimalerials with example.
8. Classify antimalarial agents with example. Discuss pharmacology of choloroquine.

SHORT ESSAYS 5 MARKS

1. Classify antiviral and antiretroviral agents with example.
2. Classify antiviral agents with example. Write the adverse effects and uses of acyclovir.
3. Write MOA, adverse effect and uses of zidovudine.
4. Classify anti viral agents with examples. Write effect and therapeutic uses of zidovudine.
5. Write MOA, adverse effect and uses of acyclovir.
6. Write MOA, adverse effect and uses of amphotericin-B.
7. Classify antiamoebic agents with example. Write the uses of tinidazole.
8. Write a flow chart showing life cycle of plasmodium species.
9. Write MOA, adverse effect and uses of chloroquine.
10. Write MOA and uses of chloroquine.
11. Classify anti-tubercular drugs with example and write the mechanism of action of INH.
12. Classify antileprotic drugs with example. Write the mechanism of action of dapsone.
13. Classify type of leprosy and antileprotic agents with examples.
14. Classify anthelmintics with examples. Write the pharmacology of albendazole.
15. Classify anthelmintic agents with examples. Write mechanism of action of benzimidazoles.

SHORT ANSWERS 2 MARKS

1. What is DOTS therapy?
2. Write adverse effect of rifampicin.
3. Write the adverse effect pf streptomycin.
4. Mention types of leprosy.
5. What are blood schizonticides. Give one example.
6. Mention four malarial parasites.
7. Outline mechanism of action of metronidazole.
8. Mention the drugs uses for treatment of filariasis.

**UNIT-4**

**6. CHEMOTHERAPHY OF UTI, STD AND CANCER 5+2**

SHORT ESSAYS 5 MARKS

1. Classify anticancer agents with example.
2. Describe mechanism of action and therapeutic uses of alkylating agents.
3. Write mechanism of action and adverse effect of methotrexale.
4. Write mechanism of action and adverse effect of 5-fluorouracil.
5. Classify types of anti metabolites with examples.

SHORT ANSWERS 2 MARKS

1. Mention common causative organisms for UTI.
2. Mention four urinary antiseptics.
3. Mention four hormonal anticancer agents.
4. What are major adverse effect cytotoxic agents.
5. Mention common causative organism of sexually transmitted diseases.
6. Write causative organism and drug of choice for syphilis and gonorrhoea.
7. Mention one sexual transmitted diseases and treatments.
8. Mention the first line of drug therapy for syphilis.

**IMMUNOPHARMACOLOGY 5+2**

SHORT ESSAYS

1. What are immunosupressants and immunostimulants? Give examples. Write their application.
2. Classify immunosuppresants with example and mention their uses.
3. Classify immunosuppresants with example, write the mechanism of action of tacrolimus.
4. Explain mechanism of action and uses of cyclosporins.
5. Write MOA, adverse effect and uses of corticosteroids.
6. Write a note on monoclonal antibody as innunosupressants.
7. Write briefly on monoclonal antibodies with example.
8. Classify immunostimulants with examples. Write note on types and uses of interferons.

SHORT ANSWER 2 MARKS

1. What are immunosuppressant? Give examples.
2. Enlist four immunostimulant.
3. Enlist T-cell inhibitors.
4. Explain mechanism of action and uses of cyclosporine.
5. Write adverse effects of cyclosporine
6. Write the adverse reaction of tacrolimus
7. Write the uses of corticosteroids
8. What are adverse effects of corticosteroids?
9. What are monoclonal antibodies used for immunosuppression

 **8.PRINCIPLE OF TOXICOLOGY**

**SHORT ESSAYS MARKS**

1. Explain the acute ,subacute and chronic toxicity studies along with their purpose
2. Highlight on ABCD regimen of acute poisoning management.
3. Outline the steps involve in the management of acute poisonings.
4. Outline steps involve in the elimination of orally ingested poisons.
5. Outline general principle of treatment of acute poisoning.
6. Write a note on re-correction of vital functions during acute poisoning
7. Write briefly on special toxicity tests.
8. Explain genotoxicity and teratogenicity with suitable examples.
9. Explain mutagenicity and chronic toxicity with suitable examples.
10. Explain the terms carcinogenicity and mutagenicity with examples.
11. Write clinical symptoms and outline steps involved in the treatment of barbiturates poisoning.
12. Write the signs , symptoms and treatment of morphine poisonings.
13. Write clinical symptoms of heavy metals poisonings. Add a note on their antidotes.
14. Write the signs, symptoms and treatment of arsenic poisonings.
15. Write clinical symptoms and outline steps involved in the treatment of lead poisonings.

**SHORT ANSWERS 2MARKS**

1. Define acute toxicity.
2. What is teratogenicity ? Give an examples
3. Explain genotoxicity
4. Mention antidotes for morphine and organophorous poisinings.
5. Write signs and symptoms of organphosphorous poisonings.
6. Mention four heavy metals and their antidotes.
7. Write antidotes for morphine and lead poisoning.
8. Mention antidotes for arsenic and lead.
9. What are the antidotes for lead and mercurty?

**9.CHRONOPHARMACOLOGY**

SHORT ANSWERS 2 MARKS

1. Explain the term chronopharmacology.
2. Write significance of chronopharmacology
3. Write the significance of chronopharmacology.
4. Define biological rhythms.
5. Mention four biological rhythms.
6. What are infradian rhythms? Give an example.
7. What is circadian rhythms? Give an example of drugs affected by it.
8. Mention drugs affected by circadian rhythm.
9. What is biological clocks?
10. Mention important classes of drugs affected by biological cycles.