

23/6/22

June

Roll Number ----- (Total Number of Questions 13) (Total number of Printed Pages 01)

Programme	B. Pharmacy
Semester	6 <sup>th</sup>
Subject	Pharmacology-III
Subject Code	BP602T
Paper ID	77987
Time	3Hours
Maximum Marks	75

**Instructions to Candidates:** No supplementary/continuation sheet will be issued to the candidates. Answer the questions precisely.

\*Section A consists of Ten parts of 2 marks each (Objective Type); Attempt **ALL**.

\*\*Section B consists of Three questions carrying 10 marks each (Long Answer); attempt any **TWO**.

\*\*\* Section C consists of Nine questions carrying 5 marks each (Short Answer); attempt any **SEVEN**.

**Section A****(10 X 2 = 20)**

1. Give very short answers to the followings (2 marks each):

i.	What are Respiratory stimulants?
ii.	Define Cough and its types.
iii.	What is Diarrhoea?
iv.	Define Suprainfection.
v.	What are biosimilars?
vi.	What is Grey baby syndrome?
vii.	What are Opportunistic infections?
viii.	Define Chronobiology and Chronopharmacology.
ix.	What are different types of TB?
x.	What are protein drugs?

**Section B****(2 X 10 = 20)**

2.	Discuss about respiratory stimulants with their pharmacological actions and therapeutic uses.
3.	Discuss the Biological clock and their significance leading to chronotherapy.
4.	Describe the pharmacology of tetracycline in detail.

**Section C****(7 X 5 = 35)**

5.	What are the methods to evaluate on acute and chronic toxicity?
6.	Write note on drugs used in the management of urinary tract infections.
7.	Explain the chemotherapy of anti-amoebic agents.
8.	Explain the chemotherapy of Antimalarial drugs.
9.	Give the classification of anti-ulcer drugs. Discuss mechanism of PPIs.
10.	Classify the first line anti-tubercular drugs and their pharmacology.
11.	Write the mechanism of alkylating agents in cancer.
12.	Write note on laxatives and purgatives.
13.	Write the drugs and therapeutic uses of quinolones.

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**Section- A** (10X2=20)

1.	Give very short answers to the followings:
i.	What is circadian rhythm?
ii.	Mention types of leprosy.
iii.	What is superinfection? Give examples.
iv.	What are the most common antidiarrheals?
v.	Mention common causative organism for UTI.
vi.	What are respiratory stimulants examples?
vii.	What is teratogenicity? Give examples.
viii.	Write antidotes for morphine and lead poisoning.
ix.	How do mast cell stabilizers work?
x.	Enlist non systemic antacids.

**Section- B** (2X10=20)

2.	Discuss the management of drug resistant tuberculosis. What is extensive drug resistance (XDR) and what is the current strategy for its management.
3.	Write the general principles of treatment of poisoning. Writ note on heavy metal Poisoning.
4.	Classify anti ulcer drugs. Discuss in detail proton pump inhibitors and H <sub>2</sub> blockers?

**Section- C** (7X5=35)

5.	Give the mechanisms of microbial drug resistance.
6.	Classify drugs used in bronchial asthma with examples.
7.	General toxicity of cytotoxic drugs used in chemotherapy of malignancy.
8.	What is the immunosuppressant drug? Mention their examples and uses.
9.	What do you mean by chronopharmacology explain biological clock?
10.	What is the uses and adverse effect of tetracycline?
11.	What are the symptoms of the diarrhoea? Give its treatment.
12.	What kind of cough is COVID? Give the treatment for cough?
13.	When should emetics be used? Give its example.

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220523 (morning)

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**Section- A**

(10 X 2 = 20)

1.	Give very short answers to the followings:
i.	Define emetics.
ii.	What do you mean by kernicterus?
iii.	Mention any two drugs used in COPD.
iv.	What do you mean by peptic ulcer?
v.	Define leprosy.
vi.	What do you mean by biological clock?
vii.	Define anthelmintic.
viii.	Mention two uses of floroquinolones.
ix.	Mention any two drugs come under category of immunostimulants.
x.	Mention any two drugs come under the category of alkylating agents.

**Section- B**

(2 X 10 = 20)

2.	Define asthma. How different types of asthmatic patients can be treated with drugs.
3.	Explain general principal of chemotherapy. Discuss mode of action of gentamycin, its therapeutic uses and adverse effects.
4.	Explain principal of toxicology. Write note on clinical symptoms and management of barbiturates and organophosphorus poisoning.

**Section- C**

(7 X 5 = 35)

5.	Discuss drugs used in the treatment of Cough.
6.	Briefly explain antimalarial Drugs.
7.	Describe the drugs used in STD.
8.	Enumerate immunosuppressants. Give clinical applications of immunosuppressant's.
9.	Give short note on drugs used in the treatment of infectious diarrhoea.
10.	Give an account of sulphonamides.
11.	Briefly explain anti-tubular agents.
12.	Write note on anti-viral drugs
13.	Write note on appetite stimulant and suppressants.

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211123  
(Evening)

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\*\*\*Section C consists of nine questions carrying 5 marks each (Short Answer); attempt any SEVEN.

**Section A**

**(10 X 2 = 20)**

1.	Give very short answers to the following:
i.	Enlist any two Antitussive drugs.
ii.	Define Expectorant with two examples.
iii.	What is an appetite stimulant? Give one example.
iv.	Write the mode of action of metronidazole.
v.	Mention two antidotes for iron poisoning.
vi.	What is genotoxicity?
vii.	How the COPD differ from asthma?
viii.	Write a pharmacological approach to the treatment of constipation.
ix.	Mention the uses of tetracycline.
x.	What is a Gray Baby syndrome?

**Section B**

**(2 X 10 = 20)**

2.	Classify Penicillin. Give mode of action, therapeutic uses and side effects of amoxicillin.
3.	Classify anti- neoplastic drugs. Explain the mode of action, therapeutic uses and side effects of methotrexate.
4.	What are the general principles of treatment of poisoning? Explain clinical symptoms and management of heavy metal poisoning.

**Section C**

**(7 X 5 = 35)**

5.	Discuss the pharmacology of Immunostimulants.
6.	Explain the mode of action and side effects of Omeprazole.
7.	Enumerate pharmacology of antifungal drugs.
8.	Write a brief account of Anti-viral drugs.
9.	How Co-Trimoxazole give the best over sulphonamide.
10.	Outline the mode of action and clinical uses of Chloramphenicol.
11.	Write notes on the General principles of Chemotherapy.
12.	Write a note on drugs used in UTI.
13.	Write notes on Digestants and Carminatives.

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28 05 24 (Evening)

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\*\*\* Section C consists of Nine questions carrying 5 marks each (Short Answer); attempt any **SEVEN**.

**Section- A (10 X 2 = 20)**

1.	Give a very short answers to the followings:
i.	What are mucolytics? Provide examples.
ii.	What is the rationale to combine amoxicillin with clavulanic acid?
iii.	Name two broad-spectrum penicillins.
iv.	Define mutagenicity.
v.	What are biosimilars?
vi.	What are protein drugs?
vii.	What are opportunistic infections?
viii.	Give the two application of chronopharmacology.
ix.	Define respiratory stimulants.
x.	Write the mode of action of cephalosporins.

**Section- B (2 X 10 = 20)**

2.	Explain the mechanism of action, uses, and side effects of anti-asthmatic drugs.
3.	Examine the biological clock and its significance in chronotherapy.
4.	Discuss it detail about the mechanism of action, uses of antimetabolite anti-neoplastic agents.

**Section- C (7 X 5 = 35)**

5.	Classify sulphonamides and elucidate the mechanism of action of co-trimoxazole.
6.	Discuss the medications utilized in treating constipation.
7.	Provide insights into organophosphorus poisoning.
8.	Elaborate on the chemotherapy of antimalarial drugs.
9.	Enumerate the classification of anti-ulcer drugs and give the mechanism of proton pump inhibitors (PPIs).
10.	Classify the first-line anti-tubercular drugs and explore their pharmacology.
11.	Explain the mechanism of alkylating agents in cancer treatment.
12.	Describe the principles of toxicology.
13.	Provide a detailed overview of fluoroquinolones.

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211124

(Sawing)

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\*\*\* Section C consists of Nine questions carrying 5 marks each (Short Answer); attempt any **SEVEN**.

**Section- A (10X2=20)**

1.	Give very short answers to the followings:
i.	Distinguish between expectorants and antitussives.
ii.	What is a superinfection, and how does it differ from a primary infection?
iii.	Define emetics and outline their applications.
iv.	Justify the use of combination therapy in tuberculosis treatment.
v.	How dyspepsia is managed?
vi.	What is gray baby syndrome?
vii.	Define genotoxicity.
viii.	What is the most common treatment for urinary tract infections (UTIs).
ix.	What is the universal antidote for poison?
x.	How do bacteria develop resistance to fluoroquinolones?

**Section- B (2X10=20)**

2.	Explain the concept of rhythm and cycles in chronopharmacology and the link between circadian rhythm and the biological clock.
3.	What are the pharmacological properties of immunostimulants and immunosuppressants?
4.	Classify penicillins, give the mechanism of action, and what are their uses?

**Section- C (7X5=35)**

5.	Describe the mechanism of action of anthelmintics.
6.	Explain the clinical symptoms and management of barbiturate poisoning.
7.	Outline the classification and therapeutic uses of aminoglycoside antibiotics.
8.	Explain the role of chloroquine in malaria treatment and including its mechanism of action.
9.	What are the mechanisms of bacterial resistance to sulfonamides?
10.	Give the classification of anti asthmatic drugs?
11.	How do biosimilars contribute to healthcare affordability and accessibility?
12.	What are the main targets of polyene antifungal agents and their mechanism of action?
13.	Classify anti-ulcer drugs and briefly explain the mechanisms of action and uses of proton pump inhibitors.

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**\*\*\*Section- C** consists of nine questions, each carrying 5 marks (Short Answer Type); Attempt any seven.

**Section- A (10X2=20)**

1.	Give very short answers to the followings:
i.	What are carminatives? Give two examples.
ii.	State two therapeutic uses of chloroquine.
iii.	Mention two side effects of aminoglycosides.
iv.	What is chronotherapy?
v.	Define immunosuppressants and name two examples.
vi.	List two pathophysiological causes of peptic ulcer.
vii.	Define: (a) Minimum Bactericidal Concentration (MBC) (b) Minimum Inhibitory Concentration (MIC)
viii.	Write any two side effects of anti-tuberculosis drugs.
ix.	Mention any two diseases for which antifungal drugs are used.
x.	Name any two sexually transmitted diseases in humans.

**Section- B (2X10=20)**

2.	List anti-emetic drug categories and outline key features of prokinetic agents.
3.	Classify anti-tuberculosic drugs and discuss first line (primary) anti-TB drugs.
4.	Describe the various drugs used for treatment of peptic ulcer along with their mechanism of action and side effects.

**Section- C (7X5=35)**

5.	Outline the mechanism of action and list the side effects associated with tetracyclines.
6.	Mention the symptoms and management strategies for organophosphorus poisoning.
7.	Define chronopharmacology and highlight its role in optimizing disease management.
8.	Classify anti-asthmatic agents and describe the mechanism by which montelukast exerts its effects.
9.	What is the rationale behind combining sulfamethoxazole with trimethoprim in therapy?
10.	Write the mechanism of action and uses of one topical and one systemic antifungal agent.
11.	Enumerate the core principles guiding the treatment of barbiturate poisoning.
12.	Write a note on alkylating agents used in cancer therapy and mention their clinical importance.
13.	Describe the OECD guidelines relevant to acute toxicity testing in laboratory animals.

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**Section- A (10X2=20)**

1.	Give very short answers to the followings:
i.	Define teratogenicity and give suitable examples.
ii.	List the non-systemic antacids.
iii.	What is a circadian rhythm?
iv.	Name the types of leprosy.
v.	State the common causative organisms of UTI.
vi.	Provide the antidotes for morphine and lead poisoning.
vii.	What is superinfection? Give examples.
viii.	List the commonly used antidiarrheal drugs.
ix.	How do mast cell stabilizers act?
x.	Give examples of respiratory stimulants.

**Section- B (2X10=20)**

2.	List the general principles for the treatment of poisoning. Include a note on heavy metal poisoning.
3.	Classify anti-ulcer drugs. State the details of proton pump inhibitors (PPIs) and H2 blockers.
4.	Outline the management of drug-resistant tuberculosis. Define extensive drug resistance (XDR) and state the current management strategy.

**Section- C (7X5=35)**

5.	What is chronopharmacology? Mention the role of the biological clock.
6.	Classify drugs used in bronchial asthma with examples.
7.	State the mechanisms of microbial drug resistance.
8.	Define immunosuppressant drugs and give their examples and uses.
9.	State the uses and adverse effects of tetracycline.
10.	List the symptoms of diarrhea and its treatment.
11.	When should emetics be used? Give an example.
12.	What type of cough occurs in COVID-19, and what is its treatment?
13.	Mention the general toxicity of cytotoxic drugs used in chemotherapy.

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