Name: Enrolment No:	

UPES

End Semester Examination, May 2024

Course: Pharmacology III **Semester: 6th**

Program: B. Pharm **Duration: 03Hours**

Course Code: BP602T **Max. Marks: 75**

Instructions: All the sections are compulsory.

SECTION A

(20Qx1M=20 Marks)

S. No.		Marks	COs
Q 1	Define acid neutralizing capacity of antacids.	1	CO1
Q 2	Enlist two antibiotics that come under the categories of macrolide.	1	CO1
Q 3	Enlist one difference between bactericidal and bacteriostatic drugs.	1	CO1
Q 4	State the name of the enzyme that is blocked by omeprazole.	1	CO1
Q 5	State the name of antibiotics that causes ototoxicity as a major side effect.	1	CO1
Q 6	List any two narrow spectrum antibiotic drugs.	1	CO2
Q 7	State the specific side effect associated with cimetidine.	1	CO2
Q 8	Write the mechanism of action of ketoconazole.	1	CO2
Q 9	List any two drugs which are used both as antitubercular and antileprotic agents.	1	CO2
Q 10	List any two drugs that come under the category of mast cell stabilizer.	1	CO2
Q 11	State the steps involved in the mechanism of action of 5 fluorouracil.	1	CO3
Q 12	List any two ulcer protective agents.	1	CO3
Q 13	List any two-purine antagonist anticancer drugs.	1	CO3
Q 14	Enlist any two alkylating agents.	1	CO3
Q 15	Which prostaglandin analogue is used in the treatment of peptic ulcer?	1	CO3
Q 16	Which enzyme is responsible for conversion of acyclovir-to acyclovir mono phosphate?	1	CO4
Q 17	Enlist the names of two broad spectrum antibiotics.	1	CO4
Q 18	List any two the classes of antiviral drugs.	1	CO4
Q 19	State the name of the enzyme that is responsible for the activation of isoniazid.	1	CO4
Q 20	State the name of antibiotic that binds to the 50S ribosome subunits and interferes with the peptide bond formation.	1	CO4

SECTION B (20 Marks) **(2Qx10M=20 Marks)** **Attempt 2 Question out of 3**			
Q 1	The picture of hands of a patient of a particular infectious disease is shown below.  a. Identify the disease. b. Classify the drugs used in the treatment of this condition. c. Discuss the mechanism of action of any two drugs with their adverse effect.	**2+4+4**	**CO4**
Q 2	Describe the pharmacology, mechanism of action, and adverse effects of theophylline.	**10**	**CO4**
Q 3	Define bronchodilators, classify them, and discuss their mechanism of action.	**2+4+4**	**CO4**
SECTION-C (35 Marks) **(7Qx5M=35Marks)** **Attempt 7 Question out of 9**			
Q 1	Categorise anti-asthma drugs based on their mechanism of action and discuss the mechanism of action of sympathomimetics as anti-asthma drugs.	**2.5+ 2.5**	**CO2**
Q2	Discuss the mechanism of action of antibiotics used as chemotherapeutic agents with a suitable example.	**5**	**CO2**
Q3.	Categorise first line anti-tubercular drugs and discuss the mechanism of action of para-amino salicylic acid.	**2.5+2.5**	**CO2**
Q4	Discuss the rationale behind the use of drugs that constitute cotrimoxazole.	**5**	**CO3**
Q5	Briefly state the mechanism of action of following drugs. i. Ketotifen ii. Montelukast iii. Penicillin G iv. Clavulanic acid v. Vincristine	**1+1+1+ 1+1**	**CO3**
Q6	Classify immunosuppressant drugs and discuss how they are beneficial in organ transplantation.	**2.5+2.5**	**CO3**
Q7	Discuss their mechanism of action of beta lactam antibiotics with suitable examples.	**1+4**	**CO4**
Q8	Describe the classification of antifungal drugs based on their mechanism of action.	**5**	**CO4**

Q9	Discuss the immunosuppressant effect of cyclosporine.	**5**	**CO4**