JHARKHAND Rai University
RANCHI

End Semester/Reappear (Semester VI) Examination May 2025

Programme: B. Pharm
Course: Pharmacology III **Full Marks: 75**
Course Code: BP602T **Time: 3 Hrs.**
Enrolment no. _____

Q.No.	Questions	CO	Bloom Taxonomy Category	Marks
	Section I			
1	**Objective Type Questions**			
	i. Which of the following is an H2 receptor antagonist? a. Omeprazole b. Ranitidine c. Loperamide d. Pantoprazole ii. Which drug is used in the treatment of diarrhea? a. Bisacodyl b. Magnesium hydroxide c. Loperamide d. Domperidone iii. Sulfonamides act by inhibiting: a. DNA gyrase b. Bacterial cell wall synthesis c. Protein synthesis d. Folic acid synthesis iv.Cephalosporins belong to which group of antibiotics? a. Macrolides b. β-lactams c. Aminoglycosides d. Quinolones v. An example of a macrolide antibiotic is: a. Erythromycin b. Gentamicin c. Amoxicillin d. Ciprofloxacin	CO1	Remember	**1 x 20 = 20**
	vi.Ciprofloxacin belongs to which group? a. Tetracyclines b. Aminoglycosides c. Fluoroquinolones d. Penicillins vii.Which of the following is a first-line antitubercular drug? a. Ciprofloxacin b. Rifampicin c. Metronidazole d. Amphotericin B viii.A common antifungal used to treat candidiasis is: a. Acyclovir b. Ketoconazole c. Isoniazid d. Rifampicin ix.Primaquine is effective against which form of malaria parasite? a. Trophozoite b. Schizont c. Sporozoite d. Hypnozoite x. Which drug is used in the treatment of syphilis? a. Penicillin G b. Acyclovir c. Fluconazole d. Erythromycin			
	xi.Which monoclonal antibody is used in the treatment of HER2-positive breast cancer? a. Rituximab b. Trastuzumab c. Bevacizumab d. Infliximab xii.Which of the following targets TNF-alpha and is used in autoimmune diseases? a. Rituximab b. Adalimumab c. Tamoxifen d. Vincristine xiii.Which of the following is a clinical feature of lead poisoning? a. Pinpoint pupils b. Blue line on gums c. Dry mouth d. Hyperreflexia xiv.Which of the following is the antidote for organophosphorus poisoning? a. Naloxone b. Atropine c. Flumazenil d. Deferoxamine xv.Which of the following is an immunosuppressant drug? a. Interferon-alpha b. Cyclosporine c. Bacillus Calmette–Guérin (BCG) d. Levamisole			
	xvi.Metronidazole is primarily used to treat: a. Amoebiasis b. Tuberculosis c. Influenza d. Ringworm xvii.Albendazole is used to treat: a. Tuberculosis b. Fungal infections c. Helminthic infections d. Viral infections xviii.Which antitussive acts centrally on the cough center? a. Salbutamol b. Codeine c. Guaifenesin d. Montelukast xix.In chrono pharmacology, circadian rhythms refer to biological cycles that last approximately: a. 6 hours b. 12 hours c. 24 hours d. 48 hours xx. A serious adverse effect of amphotericin B is: a. Hepatotoxicity b. Nephrotoxicity c. Cardiotoxicity d. Neurotoxicity			
	Section II			
2. Short Answer type questions.				
a	Discuss the mechanism of action, therapeutic uses, and adverse effects of β2-adrenergic agonists.	CO1	Remember	
b	How do macrolides, such as erythromycin, inhibit bacterial protein synthesis?	CO2	Understand	

c	Explain the mechanism of action of rifampicin.	CO3	Remember	**7 x 5 = 35**
d	Give the mechanism of action of 5-FU and 6-MP.	CO4	Understand	
e	Discuss about biological clock and their significance leading to chronotherapy.	CO5	Apply	
f	What are anti-helmintic agents and how do they function in treating helminth infections?	CO3	Remember	
	or			
	How do azole antifungals inhibit fungal growth?	CO3	Apply	
g	Discuss the mechanism of action of penicillin antibiotics?	CO2	Remember	
	or			
	What are the primary toxicities associated with aminoglycosides.	CO2	Understand	
Section III				
Long Answer Type questions				**2 x 10 = 20**
3	Explain the chemotherapy of UTIs and their MOA.	CO4	Analyze	
	or			
	Write a detailed note on Immunosuppressant and Immunostimulants.	CO4	Evaluate	
4	Give the complete pharmacology of any two drugs used as anti-malarial drugs.	CO3	Evaluate	
	or			
	What are anti-amoebic agents, and how do they work in treating amoebic infections?	CO3	Analyze	

Course Outcomes (CO):

CO1 Identify the various infectious diseases and understand mechanism of drug action and its relevance in the treatment of different infectious diseases.

CO2 Demonstrate the various poisonings and understand principles of chemotherapy.

CO3 Evaluate the toxicity profile of each drugs

CO4 Evaluate the toxicity profile of each drugs

CO5 Demonstrate the various preventive methods used for chemotherapy of fungal, viral, bacterial, protozoa & helminthes infections.