



**Programme:**BPT  
**Course:** Pharmacology  
**Course Code:**23A401  
**Enrolment no.** \_\_\_\_\_

**Full Marks: 70  
Time: 3 Hrs.**

Q.N o.	Questions	CO	Bloom Taxonomy Category	Marks
<b>Section I</b>				
1	<b>Short Answer type questions.</b>			<b>4 x 5 = 20</b>
a	Analyze the key factors influencing drug action in patients undergoing physiotherapy.	CO1	Analyze	
	or			
b	Examine the mechanisms of drug interactions and evaluate their clinical significance.	CO1	Understand	
	or			
c	Describe in detail about the interaction of adrenergic blockers with physical therapy.	CO2	Understand	
	or			
d	Explain the interaction of autonomic drugs with physiotherapy modalities.	CO2	Remember	
	or			
d	Explain about the therapeutic application and adverse reaction of beta blockers.	CO4	Understand	
	or			
d	Classify antihypertensive drugs and explain any one class in detail.	CO4	Remember	
	or			
d	Explain the mechanism of action of NSAIDs and their role in pain management during physiotherapy.	CO3	Understand	
	or			
d	Describe the physiotherapy precautions while treating patients on analgesic medications.	CO3	Understand	
	or			
<b>Section II</b>				
<b>Long Answer type questions.</b>				
2	Assess the clinical considerations a physiotherapist must take when administering mucolytic therapy.	CO4	Apply	<b>3 x 10 = 30</b>
	or			
3	Demonstrate the clinical applications of antitussives in respiratory rehabilitation exercises.	CO4	Apply	
	or			
3	Explain the interaction of corticosteroids used in asthma with physical activity and physiotherapeutic interventions.	CO3	Analyze	
	or			
4	Write in detail about the classification of therapeutic agents used in movement disorder and explain their clinical importance during physical therapy.	CO3	Create	
	or			
4	Analyze the role of corticosteroids in endocrine disorders and explain their side effects during physiotherapy.	CO2	Analyze	
	or			
4	Write a critical note on how endocrine drugs alter metabolism and analyze their influence on physical training.	CO2	Understand	
	or			
<b>Section III</b>				
<b>Application based questions.</b>				
5	Analyze the implications of insulin and oral hypoglycemics on exercise physiology. How should a physiotherapist adjust therapy intensity and duration to ensure safety and effectiveness in diabetic patients?	CO2	Analyze	<b>1 x 20 = 20</b>
	or			
5	Analyze the potential adverse effects of long-term analgesic use (including dependency and gastrointestinal complications) on physiotherapy rehabilitation in post-surgical patients. Propose a management approach.	CO2	Analyze	
	or			

**COURSE OUTCOME**

**At the end of course, candidate will able to**

CO1 Describe Pharmacological effects of commonly used drugs by patients referred for Physiotherapy, list their adverse reactions, precautions to be taken & contraindications, Formulation & route of administration.

CO2 Identify whether the pharmacological effect of the drug interferes with the Therapeutic response of Physiotherapy & vice-versa.

CO3 Indicate the use of analgesics & anti-inflammatory agents with movement disorders with consideration of cost, efficiency & safety for individual needs

CO4 Get the awareness of other essential & commonly used drugs by patients. The bases for their use & common as well as serious adverse reaction.

