

INDIRA UNIVERSITY, PUNE**SET-3****SCHOOL OF PHARMACY- MBA (PHM)****Term End Examination (2025 Pattern) December – 2025 - Semester – I****Subject Name: Anatomy, Physiology and Pharmacology**
Subject Code: GC04-104**Max. Marks: 25**
Time: 1:30 Hrs.**Instructions**

- All Questions are Compulsory. Write two sections on separate answer sheets.
- Neat diagram must be drawn wherever necessary.
- Figures to the right indicate full marks.

CO #	Cognitive Ability	Course Outcome
CO.GC04104.3	Remember,	Identify and classify various pharmaceutical dosage forms and routes of administration, and apply this knowledge in drug delivery planning and formulation strategy.
CO.GC04104.4	Analyze	Differentiate the mechanism of action, therapeutic uses, and adverse effects of drugs acting on the autonomic, central nervous, cardiovascular, respiratory, and gastrointestinal systems.
CO.GC04104.5	Evaluate	Evaluate the pharmacological profiles and clinical applications of drugs used in endocrine disorders, infections, cancer, and immunological conditions.

Q.1	Solve any FIVE from the following (5 Marks)	
a	Discuss the factors influencing the IM route of administration.	CO3
b	Illustrate patient noncompliance.	CO3
c	Develop ethical patient counselling programs for your hospital.	CO3
d	Identify the roles healthcare or hospital director.	CO3
e	Develop Plan & manage procurement of Antiviral agents in Hospital.	CO3
f	Choose & explain best treatment according to patient condition.	CO3
g	How will you utilise your knowledge to design a short training and orientation plan that integrates basic pharmacology knowledge cardiovascular to enhance administrators' ability to make informed management decisions in hospital operations.	CO3

<p>Q.2</p> <p>a</p>	<p>Solve any One. (10 Marks)</p> <p>During a hospital audit, the administrative staff struggled to interpret terms such as “proximal,” “distal,” and “sagittal plane” used in medical reports, leading to miscommunication with doctors.</p> <p>Question: Analyze how familiarity with anatomical terminology and body planes can improve interdepartmental communication, report handling, and decision-making in healthcare management.</p>	<p>CO4</p>
<p>b</p>	<p>Analyze how understanding of Antidiabetics pharmacology and dosing regimens can help administrators optimize procurement, reduce wastage, and manage costs effectively, as expensive drugs expire due to poor scheduling of treatment cycles.</p>	
<p>a</p>	<p>Solve any One. (10 Marks)</p> <p>Case on Vaccine Distribution Strategy A pharmaceutical company has developed a new viral vaccine, and the logistics team must plan its distribution across rural areas with limited cold-chain facilities.</p> <p>Question: Q.1. Evaluate the managerial decisions involved in vaccine supply chain management, considering pharmacological stability, storage, and regulatory requirements. Q.2. Also discuss few challenges faced by them.</p>	<p>CO5</p>
<p>b</p>	<p>Case on flue detection kit, Distribution Strategy A pharmaceutical company has developed a flue detection kit, and the logistics team must plan its distribution across rural areas with limited cold-chain facilities.</p> <p>Question: Q.1 Evaluate the managerial decisions involved in antiviral drug supply chain management, considering pharmacological stability, storage, and regulatory requirements. Q.2. Also discuss few challenges faced by them.</p>	
