

**BHARATI VIDYAPEETH**  
**(DEEMED TO BE UNIVERSITY), PUNE, INDIA**  
**PhD Entrance Test – 2023**  
**SECTION-II: Pharmacy Practice - 50 Marks**

<b>Section II</b>	
<b>1</b>	<ul style="list-style-type: none"> <li>• Hospital pharmacy – organization and function</li> <li>• Roles and responsibilities of hospital pharmacist</li> <li>• Pharmacy and therapeutic committee, hospital formulary, hospital committee</li> </ul>
<b>2</b>	<ul style="list-style-type: none"> <li>• Drug therapy monitoring - clinical review; medication chart review; clinical pharmacist interventions</li> <li>• Ward round participations</li> <li>• Drug related problems - drug-drug interactions; drug-food interactions; ADR interpretation, analysis, management, and reporting</li> <li>• Laboratory interpretation               <ul style="list-style-type: none"> <li>a. Hematological function tests</li> <li>b. Renal function tests</li> <li>c. Liver function tests</li> </ul> </li> <li>• Drug information services and resources used to solve queries</li> <li>• Medication history interview and Patient counselling techniques</li> <li>• Rational use of medicines and Prescribing guidelines for pediatrics, geriatrics</li> <li>• Antimicrobial stewardship practices</li> </ul>
<b>3</b>	<ul style="list-style-type: none"> <li>• Pharmacotherapy of cardiovascular (hypertension, ischemic heart diseases), and respiratory (asthma and chronic obstructive pulmonary disease)</li> <li>• Pharmacotherapy of hematological (anemia, drug-induced), gastrointestinal (peptic ulcer, inflammatory bowel, alcoholic liver, viral hepatitis, drug-induced liver), renal (acute kidney injury, chronic kidney disease, drug-induced) diseases/disorders</li> <li>• Pharmacotherapy of infectious diseases (tuberculosis, endocarditis, malaria, urinary tract infection, respiratory tract infections, syphilis)</li> <li>• Chemotherapy drugs</li> </ul>
<b>4</b>	<ul style="list-style-type: none"> <li>• Management of poisoning - organophosphorus compounds, opioids, barbiturates and antidepressants, benzodiazepines</li> </ul>
<b>5</b>	<ul style="list-style-type: none"> <li>• Drug development, phases of clinical trial and documentation</li> <li>• Drug use evaluation and/or review, cross sectional studies, cohort studies</li> <li>• Cost-benefit analysis, cost-effectiveness analysis</li> <li>• Introduction to clinical pharmacokinetics and therapeutic drug monitoring</li> </ul>

## References:

1. Hospital pharmacy by William. E. Hassan.
2. A text book of Hospital Pharmacy by S.H. Merchant & Dr. J.S. Qadry. Revised by R.K. Goyal & R.K. Parikh.
3. Handbook of pharmacy – health care. Edt. Robin J Harman. The Pharmaceutical press.
4. Practice Standards and Definitions - The Society of Hospital Pharmacists of Australia.
5. Basic skills in interpreting laboratory data - Scott LT, American Society of Health System Pharmacists Inc.
6. Biopharmaceutics and Applied Pharmacokinetics - Leon Shargel, Prentice Hall publication.
7. A text book of Clinical Pharmacy Practice; Essential concepts and skills, Dr.G. Parthasarathi et al.
8. Australian drug information -Procedure manual. The Society of Hospital Pharmacists of Australia.
9. Clinical Pharmacokinetics - Rowland and Tozer,
10. Williams and Wilkins Publication. Clinical Pharmacy and Therapeutics - Roger and Walker, Churchill Livingstone publication.
11. Pharmacotherapy: A Pathophysiologic approach - Joseph T. Dipiro et al. Appleton & Lange.
12. Pathologic basis of disease - Robins SL, W.B. Saunders publication.
13. Pathology and therapeutics for Pharmacists: A Basis for Clinical Pharmacy Practice - Green and Harris, Chapman and Hall publication.
14. Clinical Pharmacy and Therapeutics - Eric T. Herfindal, Williams and Wilkins Publication.
15. Applied Therapeutics: The clinical Use of Drugs. Lloyd Young and Koda-Kimble MA.
16. Avery's Drug Treatment, 4th Edn, 1997, Adis International Limited.

\* \* \*