

BHARATI VIDYAPEETH
(DEEMED TO BE UNIVERSITY), PUNE, INDIA
PhD Entrance Test – 2025
SECTION-II: Pharmacy Practice - 35 Marks

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

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.

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