

BHARATI VIDYAPEETH
(DEEMED TO BE UNIVERSITY), PUNE, INDIA
PhD Entrance Test – 2026
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 tests b. Renal function tests c. 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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