

**Dr. D. Y. Patil Vidyapeeth, Pune**

**Pattern for Pre-Ph. D. Examination for the faculties of**

**Medicine, Dentistry, Biotechnology & Bioinformatics, Nursing,  
Allied Medical Science (Physiotherapy)**

<b>Paper I</b>	<b>Research Methodology &amp; Biostatistics</b> No of total Questions - 10 (5 Questions on Research Methodology and 5 Questions on Biostatistics) Each Questions carries 5 marks	<b>Total Marks - 50</b>
<b>Paper II</b>	<b>Recent advances in the concerned speciality</b> No of total Questions - 10 Each Questions carries 5 marks	<b>Total Marks - 50</b>
<b>Paper III</b>	<b>Presentation &amp; Discussion</b> (Relevant to the Research topic for Ph. D.)	<b>Total Marks - 50</b>

**Dr. D.Y.PATIL VIDYAPEETH, PUNE**

**PRE-Ph. D QUESTION PAPER PATTERN OF THE FACULTY OF NURSING**

**Paper I RESEARCH METHODOLOGY AND BIOSTATISTIC**

**Total Marks – 50**

**(5 Questions – 5 Marks each)**

<b>Unit</b>	<b>Hours</b>	<b>Content</b>
Unit 1 Introduction to research	05	Research – Definition, characteristics, purposes, kinds of research Historical Evolution of research in nursing Basic research terms Scope of nursing research: areas, problems in nursing, health and social research Concept of evidence based practice Ethics in research Overview of Research process
Unit 2 Review of Literature	3	Review of Literature Importance, purposes, sources, criteria for selection of resources and steps in reviewing literature
Unit 3 Research Approaches and designs	5	Research Approaches and designs Type: Quantitative and Qualitative Historical, survey and experimental –Characteristics, types advantages and disadvantages Qualitative: Phenomenology, groundedtheory, ethnography
Unit 4 Development of research proposal	5	Research problem: Identification of research problem Formulation of problem statement and objectives Definition of terms Assumptions and delimitations Identification of variables Hypothesis – definition, formulation and types.
Unit 5 Developing framework	3	Developing theoretical/conceptual framework. Theories: Nature, characteristics, Purpose and uses Using, testing and developing conceptual framework, models and theories.
Unit 6 Sampling	4	Sampling Population and sample Factors influencing sampling Sampling techniques Sample size Probability and sampling error Problems of sampling

Unit 7 Tools and methods of Data collection	10	Tools and methods of Data collection Concepts of data collection Data sources, methods/techniques quantitative and qualitative. Tools for data collection – types, characteristics and their development Validity and reliability of tools Procedure for data collection
Unit 8	4	Implementing research plan Pilot Study, review research plan (design)., planning for data collection, administration of tool/interventions, collection of data.
Unit 9 Analysis and interpretation of data	6	Analysis and interpretation of data Plan for data analysis: quantitative and qualitative Preparing data for computer analysis and presentation. Statistical analysis Interpretation of data Conclusion and generalizations Summary and discussion Normal Distribution: Probability, characteristics and application of normal probability curve; sampling error Significance of Statistic and Significance of difference between two Statistics (Testing hypothesis) Non parametric test – Chi-square test, Sign, median test, Mann Whitney test. Parametric test – ‘t’ test, ANOVA, MANOVA, ANCOVA Use of statistical methods in psychology and education: Scaling – Z Score, Z Scaling Standard Score and T Score Reliability of test Scores: test-retest method, parallel forms, split half method.
Unit 10 Writing research report	5	Reporting and utilizing research findings: Communication of research results; oral and written Writing research report purposes, methods and style- vancouver, American Psychological Association(APA), Campbell etc Writing scientific articles for publication: purposes & Style Critical analysis of research reports and articles

**Paper II RECENT ADVANCES IN THE CONCERNED SPECIALITY 50 marks**  
**(10 Questions 5 Marks each)**

Unit I	<p><b>INTRODUCTION</b></p> <ul style="list-style-type: none"> <li>➤ Education and Nursing service: Definition, aims, concepts, philosophies &amp; their education implication. Impact of social, economical, political &amp; technological changes on education.</li> <li>➤ Professional education</li> <li>➤ Current trends and issues in education and service</li> <li>➤ Trends in development of nursing education in India.</li> </ul>
Unit II	<p><b>PHILOSOPHY AND THEORIES OF NURSING</b></p> <ul style="list-style-type: none"> <li>➤ Values, conceptual models, approaches.</li> <li>➤ <b>Nursing theories:</b> Nightingale's, Henderson's, Roger's, Peplau's, Abdella's, Lewine's, Orem's, Johnson's, King's, Neuman's, Roy's, Watson's, Parse etc. and their applications.</li> <li>➤ Health belief models, communication and management etc.</li> <li>➤ Concept of self health.</li> <li>➤ Evidence based practice model.</li> </ul>
Unit III	<p><b>NURSING PROCESS APPROACH</b></p> <ul style="list-style-type: none"> <li>➤ Health Assessment- illness status of patients/ clients (Individual, family, community), Identification of health illness problems, health behaviors, signs and symptoms of clients.</li> <li>➤ Methods of collection, analysis and utilization of data relevant to nursing process.</li> <li>➤ Formulation of nursing care plans, health goals, implementation, modification and evaluation of care.</li> </ul>
Unit IV	<p><b>PSYCHOLOGICAL ASPECTS AND HUMAN RELATIONS</b></p> <ul style="list-style-type: none"> <li>➤ Human behavior, Life processes and growth and development, personality development, defense mechanisms.</li> <li>➤ Communication, interpersonal relationships, individual and group, group dynamics, and organizational behavior.</li> <li>➤ Basic human needs, Growth and development, (Conception through preschool, School age through adolescence, young and middle adult, and older adult).</li> <li>➤ Sexuality and sexual health.</li> <li>➤ Stress and adaptation, crisis and its intervention.</li> <li>➤ Coping with loss, death and grieving.</li> <li>➤ Principles and techniques of Counseling.</li> </ul>
Unit V	<p><b>NURSING PRACTICE</b></p> <ul style="list-style-type: none"> <li>➤ Framework, Scope and trends.</li> <li>➤ Alternative modalities of care, alternative systems of complementary therapies.</li> <li>➤ Extended and Expanded role of the nurse in promotive, preventive, curative and restorative health care delivery system in community and institutions.</li> <li>➤ Health promotion and primary health care.</li> <li>➤ Independent practice issues – Independent nurse midwifery practitioner.</li> <li>➤ Collaboration issues and models within and outside nursing.</li> <li>➤ Models of prevention.</li> <li>➤ Family nursing, Home nursing.</li> </ul>

	<ul style="list-style-type: none"> <li>➤ Gender sensitive issues and women empowerment.</li> <li>➤ Disaster nursing.</li> <li>➤ Geriatric considerations in nursing.</li> <li>➤ Evidence based nursing practice.</li> <li>➤ Trans- cultural nursing.</li> <li>➤ Recent advances in Nursing</li> </ul>
Unit VI	<p><b>BIO- PSYCHO SOCIAL PATHOLOGY</b></p> <ul style="list-style-type: none"> <li>➤ Pathophysiology and psychodynamic of disease causation.</li> <li>➤ Life processes, homeostatic mechanism, biological and psycho- social dynamics in causation of disease, life style.</li> <li>➤ Common problems : Oxygen insufficiency, fluid and electrolyte imbalance, nutritional problems, hemorrhage and shock, altered body temperature, unconsciousness, sleep pattern and its disturbances, pain, sensory deprivation.</li> <li>➤ Treatment aspects: pharmacological and pre-post operative care aspects.</li> <li>➤ Cardio pulmonary resuscitation end of life care.</li> <li>➤ Infection prevention (including HIV) and standard safety measures, bio-medical waste management.</li> <li>➤ Role of nurse –Evidence based nursing practice.</li> <li>Innovations in nursing.</li> </ul>
Unit VII	<p><b>LEADERSHIP</b></p> <ul style="list-style-type: none"> <li>➤ Definition, leadership theories and styles</li> <li>➤ Components of effective leadership, characteristics of effective nurse leader</li> <li>➤ Group dynamics- Roles of groups, Group building, Individual role of group members, role of a nurse</li> <li>➤ Power &amp; politics- Power types : reward, corrective, legitimate, expert etc, nursing in politics</li> <li>➤ Role of a nurse in critical thinking</li> <li>➤ Stress management- sources, stress management techniques</li> </ul>
Unit VIII	<p><b>ETHICAL ASPECTS IN NURSING</b></p> <div style="border: 1px solid black; padding: 10px;"> <ul style="list-style-type: none"> <li>➤ Definitions of related terms, ethical committee</li> <li>➤ Code of ethics &amp; professional conduct</li> <li>➤ Legal &amp; ethical issues in nursing</li> <li>➤ Medico legal issues, nursing regulatory mechanisms</li> <li>➤ Consumer protection rights, patients rights, bill of rights, rights of special group</li> <li>➤ Infection control &amp; standard safety measures</li> </ul> </div>

**Paper III**

**PRESENTATION AND DISCUSSION**

**50 marks**

(Note: Relevant to the research topic for Ph.D Presentation on the topic in consultation with the guide)