



SHARDA
UNIVERSITY
Beyond Boundaries

**SCHOOL OF NURSING SCIENCE AND RESEARCH, SHARDA
UNIVERSITY**

Ph.D. Admission

Entrance Examination Syllabus

JUNE - JULY 2024

Table of Content

Sl.No	Content	Description	Max Marks
1	Paper - 1	Research Methodology	25
2	Paper - 2	Biostatistics, Ethics, and Computers	25
3	Paper - 3	Nursing Education and Advance Nursing Practice	10
4	Paper - 4	Nursing Management	15
5	Paper - 5	Specialty (Choose any one) a. Medical Surgical Nursing b. Obstetrics and Gynecological Nursing c. Child Health Nursing d. Mental Health Nursing e. Community Health Nursing	25
TOTAL			100

Paper - 1

[Handwritten signature]

[Handwritten signature]
Principal
Sharda School of Nursing Science and Research

RESEARCH METHODOLOGY

- **An Introduction:** Meaning of Research, Objectives of Research, and Motivation in Research, Types of Research, Research Approaches, Significance of Research, Research Methods Versus Methodology, Research and Scientific Method, Importance of Knowing How Research is Done, Research Process, Criteria of Good Research, and Problems Encountered by Researchers in India, What is a Research Problem? Selecting The Problem, Necessity of Defining the Problem, Technique Involved in Defining a Problem
- **Research design:** Meaning of Research Design, Need for Research Design, Features of a Good Design, Important Concepts Relating to Research Design, Different Research Designs, Basic Principles of Experimental Designs
- **Publications, Plagiarism, Intellectual Property Rights:** Quality of research work and papers –indexing, impact factor, H Index, citation index Meaning and principles of plagiarism, methods of plagiarism check, plagiarism checking software, Principles of intellectual property rights, patents, copyrights, trademarks and their importance.
- **Interpretation and Report Writing:** Meaning of Interpretation, Why Interpretation? Technique of Interpretation, Precautions in Interpretation, Significance of Report Writing, Different Steps in Writing Report, Layout of the Research Report, Types of Reports, Oral Presentation, Mechanics of Writing a Research Report, Precautions for Writing Research Reports

Biostatistics, Ethics, and Computers

a. Biostatistics and Ethics

- **Introduction:**
Concepts, types, significance and scope of statistics, meaning of data, Sample, parameter; type and levels of data and their measurement; Organization and presentation of data – Tabulation of data; Frequency distribution; Graphical and tabular presentations
- **Measures of central tendency:**
Mean, Median, Mode
- **Measures of variability;**
Range, Percentiles, average deviation, quartile deviation, standard deviation
- **Normal Distribution:**
Probability, characteristics and application of normal probability curve; sampling error.
- **Measures of relationship:**
Correlation – need and meaning; Rank order correlation; Scatter diagram method; Product moment correlation; Simple linear regression analysis and prediction
- **Designs and meaning:**
Experimental designs; Comparison in pairs, randomized block design, Latin squares
- **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.
- **Application of statistics in health:**
 - Ratios, Rates, Trends
 - Vital health statistics – Birth and death rates
 - Measures related to fertility, morbidity and mortality
- **Ethics in research and Statistics**

b. Computers

- **Introduction**

- Concepts of Computer.
- Hardware and software; trends and technology.
- Application of computer in nursing and its uses.

- **Disk-Operating System (DOS).**

- Windows (all versions).
- MS-Word.
- MS-Excel with pictorial presentation.
- MS-Access.
- MS-Power point

- **Other**

- Multimedia: types & uses.
- Computer aided teaching & testing
- Use of Internet and e-mail
- Statistical packages: types and their features
- Hospital Management System: Types and uses.

Paper - 3

Nursing Education and Advance Nursing Practice

a. Nursing Education

- **Introduction**
 - Professional education, Current trends and issues in education
 - National Educational policy
- **Teaching - Learning Process**
 - Competency based education(CBE) and outcome based education(OBE)
 - Instruction strategies - Lecture, discussion, demonstration, simulation, laboratory, seminar, panel, symposium, problem solving, problem based learning (PBL), workshop, project, role- play(socio- drama), clinical teaching methods, programmed instruction, self directed learning (SDL), micro teaching, computer assisted instruction(CAI), computer assisted learning (CAL)
- **Instructional media and methods**
 - Instructional aids - types, uses, selection, preparation, utilization
- **Measurement and evaluation:**
 - Principles of assessment, formative and summative assessment- internal assessment external examination, advantages and disadvantages
- **Standardized and non-standardized tests**
 - Rating scales, checklist, OSCE/OSPE(Objective structured clinical/practical examination), Differential scales, and summated scales, sociometry, anecdotal record, attitude scale, critical incident technique
 - Question bank-preparation, validation, moderation by panel, utilization
- **Curriculum Development**
 - steps of curriculum development, Curriculum models, Types and framework
- **Guidance and counseling**
 - Techniques of counseling: Interview, case work, characteristics of counselor, problems in counseling.
- **Administration of Nursing Curriculum**
 - Factors influencing faculty staff relationship and techniques of working together
- **Management of nursing educational institutions**
 - Planning, organizing, staffing, budgeting, recruitment, discipline, public relation, performance appraisal, welfare services, library services, hostel, Role of Indian Nursing Council, State Registration Nursing Councils, Boards and University

b. Advance Nursing Practice

- **Nursing as a Profession**

- Code of ethics(INC), code of professional conduct(INC), autonomy and accountability, assertiveness, visibility of nurses, legal considerations, Role of research, leadership and management, Quality assurance in nursing (INC), Futuristic nursing.

- **Health care delivery**

- Health care delivery system- national, state, district and local level

- **Genetics**

- Genetic testing – basis of genetic diagnosis, Pre symptomatic and predisposition testing, Prenatal diagnosis & screening, Ethical, legal & psychosocial issues in genetic testing.
- Genetic counseling.

- **Epidemiology**

- Scope, epidemiological approach and methods
- Morbidity, mortality

- **Nursing process approach**

- collection, analysis and utilization of data relevant to nursing process, care plans and methods

- **Nursing practice**

- Extended and expanded role of the nurse, in promotive, preventive, curative and restorative health care delivery system in community and institutions
- Health promotion and primary health care
- Models of Prevention
- Disaster nursing
- Evidence based nursing practice

Paper - 4

Nursing Management

- **Introduction**
 - Philosophy, purpose, elements, principles and scope of administration
 - Planning process: Five year plans, Various Committee Reports on health, State and National Health policies, national population policy, national policy on AYUSH and plans

- **Management**
 - Functions of administration
 - Planning and control
 - Co-ordination and delegation
 - Decision making - decentralization basic goals of decentralization
 - Concept of management

- **Nursing management**
 - Concept, types, principles and techniques
 - Vision and Mission Statements
 - Philosophy, aims and objective
 - Current trends and issues in Nursing Administration
 - Theories and models

- **Planning and Fiscal Planning**
 - Programme evaluation and review technique(PERT), Gantt chart, Management by objectives(MBO)
 - Budget estimate, revised estimate, performance budget
 - Audit, Nursing Audit
 - Cost effectiveness, Cost accounting, Critical pathways

- **Human Resource for health**
 - Staffing, Bajaj Committee, High power committee, Indian nursing council (INC), Recruitment: credentialing, selection, placement, promotion, Retention, Personnel policies, Termination, Staff development programme

- **Leadership**
 - Concepts, Types, Theories
 - Styles
 - Manager behaviour
 - Leader behaviour
 - Effective leader: Characteristics, skills
 - Group dynamics
 - Power and politics
 - Performance appraisal: Tools, confidential reports, formats, Management, interviews

Paper - 5

Specialty

Spec

a. Medical Surgical Nursing

• **Introduction**

- Current concept of health.
- Trends & issues in Medical - Surgical Nursing

• **Care in hospital settings**

- Ambulatory care
- Critical Care
- Home Health Care

• **Management of patients with**

- Disorders of gastro intestinal tract
- disorders of nervous system
- disorders of respiratory system
- disorders of cardio vascular system
- disorders of blood
- disorders of genito urinary system
- disorders of endocrine system
- disorders of musculo-skeletal system
- disorders of integumentary system
- disorders of Eye and ENT
- disorders of reproductive system
- communicable and sexually transmitted diseases
- Emergency, trauma and multi-system organ failure
- Geriatric nursing

b. OBSTETRIC AND GYNAECOLOGICAL NURSING

- **Introduction**

- National health and family welfare programmes related to maternal and child health: health care delivery system- National Rural health mission, Role of NGO's

- **Human reproduction**

- Hormonal cycles, Embryology, Genetics, teratology and counseling

- **Pregnancy**

- Assessment, Diagnosis, Ante-natal, Intra-natal and post-natal

- **Labor and its components**

- Stages of Labor,
- Normal puerperium and nursing management
- Normal Newborn
- Essential newborn care
- Abnormal Labour and all disorders of obstetric and gynecological nursing

- **Pharmacodynamics in obstetrics**

- Standing orders and protocols
- Calculation of drug dose and administration

- **Family welfare and Family Planning services**

- Vital statistics, calculation of indicators especially maternal and neonatal mortality rates
- Family Planning
- Infertility
- Menopause
- Abortion

c. CHILD HEALTH (PAEDIATRIC) NURSING

- **Introduction**

- National health policy for children, special laws and ordinances relating to children
- Current status of child health in India

- **Child Health – Overall**

- Assessment of pediatric clients
- Hospitalized child
- Pre-natal Pediatrics
- Growth and Development of children
- Behavioral Pediatrics and Pediatric Nursing
- Preventive Pediatrics and Pediatric Nursing
- Neonatal Nursing
- IMNCI
- All Pediatric and congenital disorders

d. MENTAL HEALTH (PSYCHIATRIC) NURSING

- **Introduction**
 - Standards of Psychiatric nursing
 - Challenges and Scope of psychiatric nursing
 - Multi-disciplinary team and role of nurse

- **Mental Health Nursing – (Overall)**
 - Concepts of Psychobiology
 - Theories of Personality Development and relevance to nursing practice
 - Stress and its management
 - Therapeutic communication and interpersonal relationship
 - Assertive Training
 - Promoting Self-Esteem
 - Women and Mental Health
 - The nursing process in psychiatric/mental health nursing
 - Psycho social and physical therapies
 - Electroconvulsive Therapy
 - Psychopharmacology
 - Alternative systems of medicine in mental health
 - All Neuro-Cognitive Disorders

e. **COMMUNITY HEALTH NURSING**

• **Introduction**

- Current status, trends and challenges of Community Health Nursing
- Health status of the Community-community diagnosis
- National health policy
- National Population policy
- National Health and welfare Programmes
- National Health goals/ indicators/ Millennium developmental goals(MDG)/ Strategies
- Planning process: Five year plans
- National Rural Health Mission
- Panchayat raj institutions

• **Community Health Nursing – (Overall)**

- Health and concepts of health
- Population dynamics and control
- Community health Nursing standards, competencies, Monitoring community health nursing, nursing audits
- Maternal and neonatal care
- Disaster nursing
- Information, education and communication
- Health care delivery system: Urban, rural, tribal and difficult areas