

Faculty of Nursing

PART A – Research Methodology (Q.1–35)

1. Foundations of Research

- Meaning, objectives, and characteristics of research
- Types of research: fundamental, applied, qualitative, quantitative, exploratory, descriptive
- Qualities of a good researcher; ethics in research – privacy, confidentiality, informed consent

2. Research Problems & Hypothesis

- Identification and formulation of research problem
- Hypothesis – definition, types (null, alternate, simple, composite), formulation
- Variables – independent, dependent, confounding

3. Research Designs & Sampling

- Designs: descriptive, exploratory, experimental, historical, qualitative
- Sampling – probability (random, stratified, cluster, systematic) and non-probability (quota, purposive, convenience, snowball)
- Sample size determination and representativeness

4. Data Collection & Measurement

- Questionnaire, interview, observation, scales and inventories
- Reliability and validity
- Measurement scales – nominal, ordinal, interval, ratio

5. Statistics & Data Analysis

- Descriptive statistics – mean, median, mode, SD, variance
- Inferential statistics – chi-square, t-test, ANOVA, regression, correlation
- Non-parametric tests – Mann–Whitney, Kruskal–Wallis
- P-value, significance, Type I & II errors

6. Qualitative Research Methods

- Phenomenology, grounded theory, case study, ethnography
- Data collection – interviews, FGDs, coding, thematic analysis

7. Report Writing & Referencing

- Structure of thesis and research report
- Referencing styles – APA, Vancouver
- Plagiarism awareness and bibliography preparation

PART B – Nursing Subject (Q.36–70)

1. Foundations of Nursing & Health

- Concepts of health, illness, and wellness
- Nursing theories – Nightingale, Henderson, Watson, Orem, Rogers
- Nursing process – assessment, diagnosis, planning, implementation, evaluation

2. Medical–Surgical Nursing

- Pathophysiology and nursing management of major systemic diseases
- Perioperative nursing care
- Critical care and emergency nursing

3. Obstetrics & Gynecological Nursing

- Reproductive health and safe motherhood
- Normal and high-risk pregnancy, labor, and puerperium
- Gynecological disorders and nursing care

4. Child Health Nursing (Pediatrics)

- Growth and development, immunization
- Pediatric diseases and nursing management
- Neonatal and high-risk infant care

5. Community Health Nursing

- Concepts of community, rural and urban health
- National health programs and policies
- Epidemiology, preventive and promotive health services

6. Mental Health Nursing

- Psychiatric disorders – mood, psychotic, neurotic, personality
- Nursing assessment, therapeutic communication
- Role of nurse in psychotherapy, counseling, rehabilitation

7. Nursing Education & Management

- Principles of teaching and learning in nursing
- Curriculum development, evaluation methods
- Nursing administration, leadership, hospital management

8. Recent Advances in Nursing

- Evidence-based nursing practice
- Nursing informatics
- Advanced procedures and technology
- Research utilization in clinical practice