



All India Institute of Medical Sciences, Jodhpur
Examination Cell

Indicative Syllabus for Senior Nursing Officer

(Syllabus is only indicative. The questions can assess any aspect of knowledge, aptitude, attitude and practical skills, which is expected from a trained person to work efficiently as Senior Nursing Officer)

ANATOMY:

Introduction to Anatomy
Introduction to Anatomical terms organization of the human body
The Skeletal System
The Muscular System
The Nervous System
The Sensory Organs
Circulatory and lymphatic system
The Respiratory System
The Digestive system
The Excretory System (Urinary)
The Endocrine system
The Reproductive system including breast
The Integumentary system

Physiology:

Cell Physiology
Skeletal System
Muscular System
Control System - Nervous System, The Endocrine System
Blood & Circulatory System
The Respiratory System
The Digestive System
The Excretory System
The Sensory Organs
The Reproductive System
Defense: Neural, Lymphatic and Immunological
NUTRITION - Introduction to Food & Nutrition, Carbohydrates, Fats, Proteins, Vitamins, Minerals
Water & Electrolytes, Cookery rules & preservation of nutrients,
Normal Nutrition/ Balanced diet Therapeutic Nutrition

Biochemistry:

Introduction
Structure and functions of Cell membrane
Composition and metabolism of carbohydrates
Composition and metabolism of Lipids
Composition and metabolism of Amino acids and proteins
Composition of Vitamins and Minerals
Immunochemistry

NURSING FOUNDATIONS:

Health and Wellness
Nursing as a Profession
Hospital Admission and Discharge

Communication and Nurse Patient Relationship
The Nursing Process
Documentation and Reporting

Vital Signs –

- Introduction
- *Body temperature*
- *Pulse*
- *Respiration*
- *Blood pressure*
- Recording of vital signs

Health Assessment

Machinery, Equipment and Linen in Patient Care

Meeting Needs of Hospitalized Patient –

- *Patient safety*
- *Hygiene*
- *Comfort*
- *Sleep and rest*
- *Nutrition*
- *Urinary elimination*
- *Bowel elimination*
- *Mobility and exercise*
- *Oxygenation*
- *Fluid, electrolyte and acid base balances*
- *Skin integrity*
- *Psychosocial needs*

Infection Control in Clinical Settings

Administration of Medications

Meeting Needs of Perioperative Patients

Care of terminally ill patient

Theoretical Foundations of Nursing Practice

Concept and Principles of First Aid

First aid in emergencies

PSYCHOLOGY:

Introduction
Biology of behaviour
Cognitive Processes
Motivation and Emotional processes
Personality
Psychological assessment & tests
Psychological assessment & tests
Mental hygiene and mental Health

MICROBIOLOGY:

Introduction & Historical background
Definitions-Medical Microbiology, which includes the branches, Bacteriology, Virology, Mycology, Parasitology and Immunology. Infection, Pathogen, Commensal, Symbiosis, Host, Vector, Contagious Disease, Infectious disease, Epidemic, Endemic, Pandemic & Zoonosis, Flora of the human body.



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Source, Mode of infection, route of infection and spread, Endogenous and exogenous infection, reservoir of infection

Infection Control-

- Sterilization and Disinfection
- Chemotherapy
- Waste Disposal

General characteristics of Bacteria-

- Morphology of Bacteria
- Physiology of Bacteria
- Identification of Bacteria
- Bacterial Genetics

-Normal Flora

Systemic Bacteriology

Parasitology

Mycology

Virology

Immunology

Applied Microbiology

PHARMACOLOGY:

Introduction to pharmacology

Chemotherapy

Pharmacology of common used antiseptics, disinfectant and insecticides

Drugs acting on G.I system

Drugs used on respiratory systems

Drugs used on urinary system

Miscellaneous-

Drugs used on skin and mucous membranes

Drugs acting on nervous system

Cardiovascular drugs

Drugs used for hormonal, disorders and supplementation, contraception

And medical termination of pregnancy

Introduction to drugs used in alternative systems of medicine

PATHOLOGY:

Introduction

Cellular growth, Neoplasms

Special pathology - Respiratory tract, Cardio-vascular system, Blood Disorders, Gastro Intestinal Tract, Liver, Gall bladder & pancreas, Kidneys & Urinary tract, Male genital systems, Female genital system, Cancer Breast, Central Nervous system, Metastatic tumour, Skeletal system

Clinical pathology - Various blood and bone marrow tests in assessment and monitoring of disease conditions

Examination of body cavity fluids, transudates and exudates

Urine and faeces.

Genetics:

Introduction

Maternal, prenatal and genetics

Genetic testing in the neonates and children

Genetic conditions of adolescents and adults

Services related to Genetics

MEDICAL – SURGICAL NURSING- I:

Introduction

Common signs, symptoms, and management

Nursing management of patients with respiratory problems

Nursing management of patients with disorders of digestive system

Nursing management of patients with cardiovascular problems

Nursing management of patients with haematologic problems

Nursing management of patients with genito-urinary problems-

-Urological obstructions

-Disorders of Kidney

-Disorders of ureter, urinary bladder and urethra

Nursing management of disorders of male reproductive system

Nursing Management of patient with disorders of endocrine system-

-Disorders of Thyroid

-Disorders of Parathyroid

-Disorders of Pituitary gland

-Disorders of adrenal gland

Nursing management of patient with disorders of Integumentary system

Nursing management of patient with musculoskeletal problems - Disorders of musculoskeletal System

Nursing management of patient with Immunological problems

Peri operative nursing

COMMUNITY HEALTH NURSING-I:

Introduction

Determinants of health

Epidemiology

Epidemiology and nursing management of common

Communicable disease - Respiratory infections, Intestinal Infections, Arthropod infections, Viral, Bacterial, Riskettsial diseases, Parasitic zoonoses, Surface infection.

Epidemiology and Nursing management of Non-communicable diseases

Demography

Population and its control



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SOCIOLOGY:

Introduction
Individual & society
Culture
Social groups and processes
Population
Family and marriage
Social stratification
Types of communities in India - (Rural, urban and regional)
Social change
Social organization and social system
Social control
Social problems

MEDICAL SURGICAL NURSING-II:

Nursing management of patient with disorders of ear, nose and throat - *Disorders of External ear, Disorders of Middle ear, Disorders of Inner ear, Disorders of Nose, Disorders of Throat*
Nursing management of patient with disorders of eye
Nursing management of patient with neurological disorders - Disorders of Spine & Spinal Cord, Disorders of Brain, Infections, Movement disorder, Myasthenia gravis,
Nursing Management of Patient with burns, reconstructive and cosmetic surgery
Nursing Management of Patients with oncological conditions
Nursing management of patient in emergency and disaster situations - Disaster Management, Emergency Nursing
Nursing management of patient in critical care units - *Nursing assessment, Organization, Special equipments*
Nursing care of the elderly- *Nursing assessment, Demography*

CHILD HEALTH NURSING:

Introduction: Modern concepts of child care- The healthy child, nursing care of neonate,
Integrated management of neonatal and childhood management
Nursing management in common childhood diseases - Management of behavior and social problems in children, cardiovascular system, Digestive system, Genitourinary urinary system, Endocrine system, Haematological condition, Genetic Disorders, Nutritional deficiency diseases, inborn error of metabolism

Management of behavior and social problems in children

MENTAL HEALTH NURSING:

Introduction
Principles & concept of Mental Health Nursing
Assessment of mental health status

Therapeutic communication & nurse relationship
Treatment modalities & therapies used in mental disorders
Nursing management of patient with schizophrenia, & other psychotic disorders
Nursing management of patient with mood disorders
Nursing management of patient with neurotic, stress related & somatoform disorders
Nursing management of patient with substance use disorders
Nursing management of patient with personality, sexual & eating disorders
Nursing management of childhood & adolescent disorders including mental deficiency
Nursing management of organic brain disorders
Psychiatric emergencies & crisis intervention
Legal issues in mental health nursing
Community mental health nursing

OBSTETRICAL & GYNECOLOGICAL NURSING INCLUDING MIDWIFERY:

Introduction to midwifery and obstetrical nursing
Review of anatomy and physiology of female reproductive system and fetal development
Assessment and management of pregnancy in antenatal period
Assessment and management of intra-natal period
Assessment and management of women during postnatal period
Assessment and management of normal neonates
Assessment and management of high-risk pregnancy
Assessment and management of abnormal labour
Abnormalities during post-natal period
Assessment and management of high-risk newborn
Pharmaco-therapeutics in Obstetrics
Family welfare Programme
Nursing Management of Patient with Disorders of female reproductive system (Gynaecological disorders)

COMMUNICATION & EDUCATIONAL TECHNOLOGY:

Review of communication Process
Interpersonal relations
Human relations
Guidance & counselling
Principles & philosophies of Education
Teaching-Learning Process
Methods of teaching
Educational media
Assessment
Information, Education & communication for health (IEC)

COMMUNITY HEALTH NURSING - II:

Introduction
Health Planning and Policies and problems
Delivery of community health services



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Community health nursing approaches, concepts and roles and responsibilities of nursing personnel
Assisting individuals and groups to promote and maintain their health
National health and family welfare programmes and the role of a nurse

Nursing Research:

Research and research process
Research problem/ question
Review of literature
Research approaches and designs
Population, Sample and Sampling
Data collection methods and tools
Analysis of data
Communication and utilization of research

Statistics:

Introduction to statistics - Definition, use of statistics, scales of measurement, Frequency of distribution and graphical presentation of data
Measures of central tendency - Mean, median, mode,
Measures of Variability: Standard deviation, Co-efficient of correlation, Normal probability.
Tests of significance - t' test, chi square, Statistical packages and its application – SPSS

NURSING MANAGEMENT:

Introduction to management & *Administration* in nursing
Management Process – *Planning, Organization, Human resource management, Directing, Controlling, Budgeting, Material management*
Management of nursing services in the Hospital and Community - *Nursing Management, Nursing Management, Organization, Human resource management, Directing and leading, Controlling/ Evaluation, Budgeting, Material Management*
Organizational behaviour and human relations
Management of nursing educational institutions
Regulatory Bodies, Legal and Ethical Issues