



Ch. No.157/1, Near Laxmi Nagar, Metro Station Gate No 1, Vikas Marg, Delhi-92

#### **SEMESTER - III**

PAPER CODE	SUBJECT NAME	THEORY HOURS	PRACTICAL HOURS	THEORY MARKS	PRACTICAL MARKS
NA301	PRIMARY HEALTH NURSING & CARE	45 Min	1 Hrs.	50	50
NA302	PEDIATRIC NURSING	45 Min	1 Hrs.	50	50
NA303	MIDWIFERY	45 Min	1 Hrs.	50	50
NA304	PHARMACOLOGY & MICROBIOLOGY	45 Min	1 Hrs.	50	50

# PRIMARY HEALTH NURSING & CARE

#### **THEORY**

# 1. Introduction to Primary Health Care (PHC)

- Definition and importance of PHC
- Principles of PHC: Equity, Accessibility, Community Participation, Intersectoral Coordination
- Evolution of primary health care in India
- Alma Ata Declaration and Sustainable Development Goals (SDGs)

# 2. Structure of Primary Health System in India

- Sub-Center
- Primary Health Center (PHC)
- Community Health Center (CHC)

# **Urban PHC**

- Role of Nursing Assistant in each setup
- Linkages with district hospital and referral units

# 3. Functions & Roles of Primary Health Care Nurse

- Home visiting, counseling, minor treatments
- Health check-up and screening
- Recording and reporting community data
- Support during immunization and MCH services
- Maintaining drug kits and equipment
- Conducting village health and nutrition days (VHND)

# 4. Common Illnesses at Primary Level



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- Identification and basic care of:
  - o Fever, cold, cough
  - Diarrhea & dehydration
  - o Minor wounds, skin infections
  - o Malaria, Dengue, Typhoid, Tuberculosis
  - Worm infestation
- First aid and referral
- Distribution of essential drugs

# 5. Maternal and Child Health in PHC

- Antenatal and postnatal care at sub-center
- · Early detection of high-risk pregnancy
- Institutional delivery promotion
- Growth monitoring and immunization
- Newborn and child care follow-up
- Lactation and nutrition support

# 6. Family Planning & Reproductive Health

- Family planning counseling
- Temporary and permanent methods
- Record-keeping and follow-up
- RTI/STI awareness
- Menstrual hygiene education

#### 7. Health Promotion & Disease Prevention

- Personal and community hygiene Nutrition and safe drinking water
- Oral rehydration therapy (ORS)
- Safe disposal of waste
- Health education and community mobilization

# 8. Role in National Health Programs

- RMNCH+A
- National Immunization Program
- National Vector Borne Disease Control
- Janani Suraksha Yojana (JSY)
- Ayushman Bharat and Health & Wellness Centers

#### 9. Basic Health Statistics and Reporting

Household survey



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- Eligible couple and child register
- Immunization register
- Nutrition records
- Report formats for ASHA coordination
- Maintaining daily activity diary

# **PRACTICAL**

# Household Survey & Registration

- Conduct family and individual surveys
- Prepare eligible couple register (ECR)
- Maintain child register for immunization
- · Record births and deaths in the area
- Identify high-risk individuals (elderly, pregnant women, disabled)

# Community Health Education Activities

- Conduct health talks on:
  - Personal hygiene
  - Safe drinking water
  - Malaria prevention
  - Breastfeeding and weaning
  - o Family planning methods
- Use flashcards, flipcharts, posters
- Engage school children and SHG members

#### Maternal and Child Health Activities

- Antenatal home visits: BP, weight, abdominal exam (under supervision)
- Postnatal care: Breastfeeding guidance, lochia check, perineal care
- Record immunization due dates for infants
- Provide iron, folic acid, calcium supplements
- Educate on nutrition during pregnancy and lactation

#### Basic Treatment and First Aid

- Identify fever, diarrhea, dehydration, scabies, worm infestation
- Administer ORS, paracetamol, albendazole, iron tablets (as per protocol)
- · Perform dressing for minor wounds
- Monitor temperature, pulse, BP
- Refer serious cases to PHC/CHC

#### > Growth Monitoring & Nutrition Assessment

- Measure height, weight, MUAC
- Plot growth chart (WHO standard)



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- Classify nutritional status (normal, moderate, severe malnutrition)
- > Counsel mothers on age-appropriate feeding

# > Immunization Support

- Assist in immunization sessions at sub-center or VHND
- Prepare vaccines and maintain cold chain
- Identify child as per register
- Maintain immunization card
- Manage minor reactions and advise mothers

# > Sanitation & Hygiene Practices

- Demonstrate:
  - Safe hand washing techniques
  - Safe water storage
  - Household waste disposal
  - Latrine usage and maintenance
- Mobilize the community during Swachh Bharat or similar campaigns

# National Health Program Activities

- Assist in malaria fever survey and blood smear collection
- Help organize health screening camps
- Participate in Vitamin A, deworming, or polio campaigns
- Distribute IEC material during campaigns (TB, leprosy, COVID-19 etc.)

#### Coordination & Communication

- Collaborate with ASHA, Anganwadi Worker, MPW
- Report daily activities to PHC
- Maintain communication diary / activity log
- Participate in team meetings and VHND review

# **PEDIATRIC NURSING**

#### **THEORY**

# 1. Introduction to Pediatric Nursing

- Definition and scope of pediatric nursing
  - Role and responsibilities of Nursing Assistant in child care



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- Rights of children and child protection
- Growth vs. development: meaning, principles

# 2. Growth and Development

- Normal growth milestones (0–5 years)
- Factors influencing growth and development
- Physical, emotional, cognitive development
- Assessment tools: Weight, Height, MUAC, Head Circumference
- Use of growth charts

#### 3. Nutritional Needs of Infants and Children

- Exclusive breastfeeding (first 6 months)
- Weaning practices
- Balanced diet for toddlers and preschoolers
- Nutrition deficiency disorders:
  - PEM (Kwashiorkor, Marasmus)
  - o Rickets, Anemia, Vitamin A deficiency
- IFA and Vitamin A supplementation

#### Common Childhood Illnesses

- ARI (Acute Respiratory Infection)
- Diarrhea and dehydration
- Fever, Measles, Chickenpox
- Skin infections, Ear infections
- Simple management and home remedies
- Referral system and emergency signs

# 4. Neonatal Care (0-28 days)

- Immediate newborn care (clean cord care, warmth, breastfeeding)
- Newborn danger signs (fast breathing, poor sucking, fever, cold extremities)
- Low birth weight and preterm baby care
- Kangaroo mother care (KMC)
- Immunization at birth (BCG, OPV-0, Hepatitis B)

#### 5. Immunization

- National Immunization Schedule
- Route, dose, site of each vaccine
- Maintenance of cold chain
- Monitoring adverse events following immunization (AEFI)
- Updating child immunization cards

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5

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# 6. Child Health & National Health Programs

- Integrated Child Development Services (ICDS)
- Rashtriya Bal Swasthya Karyakram (RBSK)
- Mid-Day Meal Scheme
- National Deworming Days
- Vitamin A Campaign

# 7. Common Pediatric Emergencies

- Febrile seizures
- Severe dehydration
- Choking and foreign body
- Burns and injuries
- First aid and when to refer

# 8. Health Education & Counseling

- Hygiene and sanitation for children
- Safe feeding and food handling
- Diarrhea prevention (handwashing, clean water)
- Parental guidance on home care

# **PRACTICAL**

# Growth Monitoring

- Measure and record:
  - Weight
  - Height/Length
  - Mid Upper Arm Circumference (MUAC)
  - Head and chest circumference (if <1 year)</li>
- Plot findings on WHO growth chart
- Interpret malnutrition grades
- Educate parents about healthy child development

#### > Nutritional Assessment & Feeding

- Observe breastfeeding technique and positioning
- Assist in weaning and complementary feeding
- Provide nutritional counseling to mothers
- Demonstrate preparation of age-appropriate weaning food
- Identify signs of nutritional deficiency (e.g. anemia, PEM)

# > Immunization Support

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- Assist in routine immunization sessions at VHND/sub-centers
- Identify child from immunization register
- Prepare vaccine dose and site
- Maintain cold chain and record AEFI if any
- Fill immunization card and educate mother on schedule

#### Newborn & Infant Care

- Assist in newborn bathing, cord care, thermal protection
- Educate on exclusive breastfeeding
- Identify newborn danger signs (e.g. lethargy, poor feeding, fever, fast breathing)
- Support Kangaroo Mother Care (KMC) in low birth weight babies
- Perform basic assessments under supervision (skin color, cry, breathing, reflex)

# Management of Common Childhood Illnesses

Identify and assist in managing:

Diarrhea (prepare and administer ORS)

- o ARI (monitor RR, chest in-drawing)
- Fever and skin infections
- Minor wounds and injuries (cleaning, dressing)
- Refer cases with red flag signs (convulsions, severe dehydration, unconsciousness)

# Pediatric First Aid & Safety

- Apply basic first aid in:
  - Choking
  - o Burns
  - o Febrile seizures
  - Cuts and insect bites
- Educate family on child safety measures at home

#### Health Education Activities

- Conduct health talks with mothers in:
  - Breastfeeding & weaning
  - Immunization importance
  - Hand hygiene and personal cleanliness
  - o Diarrhea prevention
  - o Indoor air pollution & ARI
- Use posters, flipcharts, and visual aids

# Home Visits and Follow-up

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7



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- Conduct home visits for:
  - o Postnatal child monitoring
  - o Immunization follow-up
  - Malnutrition cases
  - Non-immunized dropouts
- Maintain visit report and feedback form

# **MIDWIFERY**

#### **THEORY**

# 1. Introduction to Midwifery

- Definition, goals & scope of midwifery
- · History of midwifery & maternal care in India
- Role of Nursing Assistant in midwifery
- Legal and ethical aspects of midwifery practice

# 2. Anatomy & Physiology in Obstetrics

- Female reproductive system (internal & external)
- Menstrual cycle and ovulation
- Changes during pregnancy
- Fetal development stages
- Placenta structure and functions
- Pelvis types and obstetric importance

# 3. Antenatal Care (ANC)

- Aims and objectives of antenatal care
- Assessment and registration of pregnant women
- Routine investigations & examinations
- Immunizations (TT, Iron, Folic Acid)
- Danger signs during pregnancy
- Minor discomforts and management
- Nutrition in pregnancy
- Birth preparedness and complication readiness

# 4. Intranatal Care (Labour & Delivery)

- Signs and stages of labour
- Conducting normal delivery
- Use of partograph
- Preparation and sterilization of delivery tray

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- Aseptic techniques in labour room
- Active management of third stage of labour (AMTSL)
- Immediate care of mother and newborn
- Management of common complications during labour

# 5. Postnatal Care (PNC)

- Care of mother during postpartum period
- Postnatal assessment
- Breastfeeding initiation, technique, benefits
- Postnatal exercises
- Nutrition and hygiene
- Identification and referral for postpartum complications
- Immunization schedule

#### 6. Newborn Care

- Resuscitation of newborn (basic steps)
- APGAR scoring
- Thermal protection (Kangaroo care)
- · Breastfeeding support
- Common neonatal problems and management
- Low birth weight (LBW) and preterm care
- Identification of danger signs in neonates

#### 7. High-Risk Pregnancy & Obstetric Emergencies

- PIH, eclampsia
- Anaemia in pregnancy
- Antepartum haemorrhage (APH)
- PPH prevention and first aid
- Prolonged/obstructed labour
- Malpresentation
- Retained placenta
- Sepsis and shock

# 8. Family Welfare & Reproductive Health

- Family planning methods (temporary & permanent)
- Counselling techniques
- Emergency contraception
- Adolescent reproductive health
- Role of Nursing Assistant in national family welfare programs

# 9. Midwifery Procedures (Practical Skills)



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- Handwashing and gloving
- Abdominal palpation & fetal heart sound auscultation
- Antenatal check-up & record maintenance
- Urine testing for sugar and albumin
- Hemoglobin estimation
- Preparation & assistance in normal delivery
- Newborn resuscitation
- Postnatal assessment
- Breastfeeding assistance
- Record keeping and reporting

#### Community-Based Midwifery Services

- Identifying high-risk mothers in community
- Conducting home deliveries (Skilled Birth Attendant role)
- Referral and transport arrangement
- Role of Nursing Assistant in VHND, sub-centre, PHC
- Health education in maternal and child care

# **PRACTICAL**

# Antenatal Care (ANC) Practical Skills

- 1. Registration of antenatal mothers
- 2. Calculation of EDD using LMP
- 3. Handwashing and use of gloves
- 4. Taking antenatal history and physical examination
- 5. Measurement of:
  - o Height and weight
  - Blood pressure
  - Fundal height
- 6. Abdominal palpation (Leopold's maneuvers)
- 7. Auscultation of fetal heart sound (FHS)
- 8. Testing of urine for:
  - o Albumin
  - Sugar
- 9. Hemoglobin estimation
- 10. Iron & Folic Acid (IFA) supplementation
- 11. Tetanus toxoid (TT) immunization
- 12. Identification of danger signs in pregnancy
- 13. Health education on diet, rest, hygiene, and ANC visits
- 14. Maintaining ANC register and records

# **▶** Intranatal Care (Labour Room Skills)

# 1. Preparation of delivery tray/set

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- 2. Preparing mother for delivery (positioning, hygiene)
- 3. Monitoring labour using **Partograph**
- 4. Conducting normal vaginal delivery under supervision
- 5. Active Management of Third Stage of Labour (AMTSL)
- 6. Cord clamping and cutting
- 7. Delivery of placenta and checking its completeness
- 8. Ensuring uterine contraction after delivery
- 9. Immediate newborn care:
  - Cleaning the airway
  - APGAR scoring
  - Thermal protection (wrapping)
- 10. Assisting in episiotomy and suturing (if applicable)
- 11. Recording vital signs of mother and baby
- 12. Proper disposal of biomedical waste
- 13. Maintenance of labour room records

# Postnatal Care (PNC) Practical Skills

- 1. Postnatal assessment of mother (vitals, involution)
- 2. Breast examination and management of breastfeeding issues
- 3. Support and guidance on exclusive breastfeeding
- 4. Perineal care and hygiene
- 5. Educating mother on postnatal exercises
- 6. Identification of postnatal complications (bleeding, fever)
- 7. Immunization of newborn (BCG, OPV, Hep-B)
- 8. Counseling on family planning methods
- 9. Health education for mother and family
- 10. Maintaining PNC records and home visit reports

#### Newborn Care Practical Skills

- 1. Newborn assessment (weight, length, head circumference)
- 2. Skin-to-skin contact (Kangaroo Mother Care)
- 3. Early initiation of breastfeeding
- 4. Care of cord stump
- 5. Care of low birth weight and preterm babies
- 6. Identification of danger signs (jaundice, respiratory distress)
- 7. Newborn resuscitation using bag and mask (under supervision)
- 8. Temperature regulation and bathing techniques
- 9. Keeping newborn warm (room setup)
- 10. Maintaining newborn care records

#### > Family Welfare & Reproductive Health

1. Counseling on family planning methods

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- 2. Demonstration of contraceptive use (models only)
- 3. Referral for sterilization or IUD insertion
- 4. Maintenance of eligible couple register
- 5. Providing emergency contraception (under guidance)
- 6. Community health education on spacing and limiting methods

# Community-Based Midwifery Practice

- 1. Conducting home visits for antenatal and postnatal care
- 2. Identifying high-risk mothers and referring
- 3. Assisting in home deliveries (if applicable)
- 4. Educating families on maternal & child care
- 5. Organizing and participating in Village Health & Nutrition Day (VHND)
- 6. Mobilizing women for antenatal check-ups
- 7. Coordinating with ASHA, AWW, and health staff
- 8. Reporting and record keeping at Sub-centre

# PHARMACOLOGY & MICROBIOLOGY

#### **THEORY**

#### PHARMACOLOGY SYLLABUS

# 1. Introduction to Pharmacology

- Definition and scope of pharmacology
- Classification of drugs
- Sources of drugs
- Forms of drugs (solid, liquid, semisolid, gaseous)
- Routes of drug administration (oral, IM, IV, SC, etc.)
- Dosage forms and calculations
- Factors affecting drug action
- Adverse drug reactions and side effects
- Drug interactions
- Storage and handling of medicines

# 2. Commonly Used Drugs in Nursing Practice

- Antipyretics, analgesics
- Antibiotics and antifungals
- Antiseptics and disinfectants
- Antiemetics and antidiarrheals
- Antacids and laxatives
- Antihypertensives

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- Antidiabetics
- Iron, calcium, and vitamin supplements
- Oxytocics and uterotonics (used in labour)

Emergency drugs (e.g., adrenaline, atropine)

# 3. Drug Administration Techniques

- Oral medication
- Topical application (creams, ointments)
- Inhalation therapy
- Injections: IM, SC, IV
- Instillation (eye, ear, nasal drops)
- Suppositories and enemas
- Care before and after drug administration
- Precautions and rights of drug administration
  - o Right patient, dose, route, time, drug, documentation

# 4. Role of Nursing Assistant in Pharmacology

- Drug compliance and patient education
- Storage of drugs at sub-centre level
- Safe handling and disposal of expired drugs
- Reporting adverse drug reactions
- Maintaining drug stock and records

#### MICROBIOLOGY SYLLABUS

#### 1. Introduction to Microbiology

- Definition and importance
- History of microbiology
- Classification of microorganisms:
  - Bacteria
  - Viruses
  - o Fungi
  - Parasites
- Difference between pathogenic and non-pathogenic organisms

# 2. Common Microorganisms and Diseases

- Bacterial infections: Tuberculosis, Typhoid, Cholera
- Viral infections: Hepatitis, HIV/AIDS, Measles
- Fungal infections: Ringworm, Candidiasis
- Parasitic infections: Malaria, Worm infestations
- Modes of transmission: direct, indirect, vector-borne
- Carriers and reservoirs

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# 3. Immunity and Immunization

- Types of immunity: natural, acquired, active, passive
- Antigens and antibodies
- Principles of immunization
- National Immunization Schedule
- Cold chain and vaccine storage
- Role of Nursing Assistant in immunization
- Handling of vaccines and maintaining immunization records

#### 4. Infection Control and Prevention

- Hand hygiene and surgical asepsis
- Use of PPE (gloves, masks, gowns)
- Disinfection and sterilization techniques
- Waste segregation and disposal (color coding)
- Control of hospital-acquired infections (HAIs)
- Isolation precautions
- Role of Nursing Assistant in infection prevention at sub-centre and community

#### **PRACTICAL**

#### PHARMACOLOGY - PRACTICAL SYLLABUS

#### Drug Handling & Preparation

- 1. Identifying common drugs by name, category, and use
- 2. Calculating correct dosage (basic math skills)
- 3. Reading and interpreting prescriptions
- 4. Checking expiry date and storage conditions
- 5. Organizing drugs in medicine tray or kit
- 6. Labelling and storing drugs properly (cool/dry storage)
- 7. Checking for drug discoloration or spoilage
- 8. Maintaining drug stock register at sub-centre
- 9. Identifying and segregating expired drugs for disposal

#### Drug Administration Techniques

- 1. **Oral medication administration** tablets, syrups, drops
- 2. **Topical application** ointments, creams, powders
- 3. **Injection techniques** (under supervision):
  - o Intramuscular (IM)
  - Subcutaneous (SC)
  - Intradermal (ID)



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- 4. **Instillation techniques** eye, ear, nasal drops
- 5. Suppository insertion and enema administration
- 6. Use of sterile syringe and ampoule opening
- 7. Pre- and post-drug administration precautions
- 8. Observing and reporting side effects
- 9. Educating patient/family on drug compliance

# Emergency Drug Use (Demo-Based)

- 1. Identifying emergency drugs (e.g., adrenaline, atropine)
- 2. Assembling emergency drug tray
- 3. Role in preparation and assistance in emergencies
- 4. Maintenance of emergency drug register

# Patient Education & Record Keeping

- 1. Educating patient on dosage, schedule, and side effects
- 2. Counseling on Iron, Calcium, Vitamin supplements during pregnancy
- 3. Maintaining **medication chart**
- 4. Reporting adverse drug reactions (ADR)
- 5. Filling drug administration records/logbook

#### MICROBIOLOGY - PRACTICAL SYLLABUS

# Hand Hygiene & Infection Control

- 1. **Handwashing technique (6 steps)** WHO protocol
- 2. **Surgical hand scrub** (demonstration-based)
- 3. **Use of PPE** gloves, mask, apron/gown
- 4. Cleaning and disinfection of instruments
- 5. Sterilization methods (boiling, autoclave, dry heat)
- 6. Disinfection of surfaces (e.g., delivery bed, thermometer)
- 7. Cleaning of thermometer after use (soap/alcohol)
- 8. Handling and safe disposal of soiled linen
- 9. Decontamination of spills (blood/body fluids)

#### **Biomedical Waste Management**

- 1. Waste segregation using color-coded bins
- 2. Sharp disposal handling used needles/syringes
- 3. Preparation of 0.5% chlorine solution for disinfection
- 4. Use of puncture-proof containers for sharps



- 5. Transporting and disposing biomedical waste safely
- Cold Chain & Immunization Practice
- 1. Handling and storing vaccines in **cold box/ice-lined refrigerator**
- 2. Use of **Vaccine Carrier** during outreach
- 3. Vaccine reconstitution under aseptic precautions
- 4. Checking Vaccine Vial Monitor (VVM)
- 5. Administering vaccines using proper technique (e.g., BCG, OPV, DPT)
- 6. Safe handling of auto-disable syringes
- 7. Documentation in **immunization register**
- 8. Identification and reporting of Adverse Events Following Immunization (AEFI)
- Observation of Microorganisms (Lab or Visual Aids)
- 1. Viewing prepared slides of bacteria, viruses, fungi
- 2. Demonstration of bacterial culture plates
- 3. Identifying microbial growth in contaminated instruments

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