

Paper II: Technical Subject

A. Epidemiology, Statistics and Research

1. Epidemiology
 - 1.1. Definition and commonly accepted concepts, approaches, methods, incidence, prevalence, association and causation, disease prevention and control
 - 1.2. Aim and use of epidemiology
 - 1.3. Epidemiology of diseases (Infectious and non-communicable disease)
 - 1.4. Dynamics of disease transmission-source of reservoir, Mode of transmission susceptible host, immunity and immunizing agents.
 - 1.5. Investigation of an epidemic
 - 1.6. Screening of diseases
 - 1.7. Health Indicators.
2. Diseases Control
 - 2.1. Prevention and control of communicable and non-communicable disease.
3. Health Statistics
 - 3.1. Sources of health information; Health Management Information System.
 - 3.2. Tabulation graphic and diagrammatic representation of data.
 - 3.3. Statistical methods: averages, dispersion distribution, sampling and sampling size test significance, correlation and regression.
4. Demography
 - 4.1. National population policy
 - 4.1.1. Population trends – World and Nepal
 - 4.1.2. Measure of population dynamics
 - 4.1.3. Factors affecting fertility, mortality and migration
 - 4.1.4. Urbanization
 - 4.1.5. Life expectancy
5. Research Methodology
 - 5.1. Operational and health system research
 - 5.2. Research proposal development
 - 5.3. Literature review
 - 5.4. Objectives and hypothesis setting
 - 5.5. Priorities in health research
 - 5.6. Nepal Health Research Council
 - 5.7. Budgeting

B: Health Service Delivery

1. National Health Programs
 - 1.1. Epidemiology and Disease Control Programme: Malaria Tuberculosis, Leprosy, JE, Zoonosis, sexually Transmitted Diseases, HIV/AIDS etc.
 - 1.2. Reproductive Health- Safe motherhood, new borne care, family planning Adolescent reproductive health, safe abortion, care of elderly women, RTI/STD/HIV/DIS, infertility prevention and treatment.

लोक सेवा आयोग

नेपाल स्वास्थ्य सेवा, हेल्थ इन्स्पेक्सन समूह, नवौं (९) तहको खुला र आन्तरिक प्रतियोगितात्मक परीक्षाको पाठ्यक्रम

- 1.3. Child health
 - 1.3.1. Care of the newborn; Integrated Management of childhood illness.
 - 1.3.2. Growth and development
 - 1.3.3. Care of the under fives
 - 1.3.4. Right of the child
 - 1.3.5. Management and control of child illness
 - 1.3.6. Immunization
- 1.4. Nutrition
 - 1.4.1. Food and nutrients with nutritional profiles
 - 1.4.2. Nutritional problems
 - 1.4.3. Nutritional factors in selected diseases
 - 1.4.4. Assessment of nutritional status
 - 1.4.5. Food toxication, additives, fortification
 - 1.4.6. Nutritional programs
2. Environmental Health
 - 2.1. Internal and external and ecological factors responsible for impairing health.
 - 2.2. Management and control of basic and fundamental environmental factors-
 - 2.2.1. Water, Air, Ventilation, Lighting, Noise, Housing
 - 2.2.2. Solid waste disposal and control
 - 2.2.3. Excreta disposal and control
 - 2.3. Medical entomology-mosquito, housefly, sand-fly, lice, fleas, bugs etc. control
 - 2.4. Insecticides-safe use and resistance
 - 2.5. Rodents control
3. Occupational Health
 - 3.1. Occupational Environment
 - 3.2. Occupational hazards
 - 3.3. Health problems due to industrialization
 - 3.4. Management, Prevention (medical, engineering and legislation) and control of
 - 3.4.1. Occupational diseases and conditions like Pneumoconiosis, lead poisoning, cancers, and dermatitis and radiation hazards
 - 3.4.2. Occupational hazards of agricultural workers
 - 3.4.3. Accidents in industries
 - 3.4.4. Measures for the general health protection of workers.
4. School health
 - 4.1. Curriculum, instruction and training
 - 4.2. Health school environment
 - 4.3. School community cooperation for better health
5. Essential Care Services (EHCS)
 - 5.1. EHCS at the district level and below
 - 5.2. Health care services beyond district level-tertiary and specialized care.
