#### लोक सेवा आयोग नेपाल स्वास्थ्य सेवा, मेडिसिन समूह, ट्रपिकल मेडिसिन उपसमूह, नवौँ (९) तहको खुला र आन्तरिक प्रतियोगितात्मक लिखित परीक्षाको पाठ्यकम

## Paper II: Technical Subject

#### **1.** Diseases in Tropics

- 1.1 **Food and Water borne Diseases:** Food and water-borne gastrointestinal diseases caused by bacteria, viruses, protozoa: life-cycle; pathogenesis; pathology; clinical manifestations; diagnosis; treatment; prevention and control
- 1.2 **Soil transmitted Helminthiases :** Soil-transmitted helminthes: life-cycle; pathogenesis; pathology; clinical manifestations; diagnosis; treatment; prevention and control
- 1.3 **Food and Water borne Diseases (Tissue Parasites) :** Water-borne extragastrointestinal parasitic diseases; pathogens; intermediate hosts; life-cycle; pathogenesis; pathology; clinical manifestation; diagnosis; treatment; prevention and control. Schistosomiasis, Guinea Worm
- 1.4 **Other Tissue Parasites:** Trematodes and Taptworms pathogens; life-cycle; pathogenesis; pathology; clinical manifestation; diagnosis; treatment; prevention and control
- 1.5 **Mosquito-borne Diseases :** Mosquito-borne diseases such as malaria, dengue infection, Japanese encephalitis and lymphatic filariasis; Chikuguniya; epidemiology; pathogens; mosquito vectors; life cycle, pathogenesis; pathology; clinical manifestations; management; prevention and control
- 1.6 Non-mosquito Vector-borne Diseases and Zoonoses : Non-mosquito vectorborne diseases and zoonoses with details of pathogens, vectors, life cycles, clinical manifestations, management, prevention and control of diseases - Kala –azar including cutaneous forms, Trypanosomiasis and Chaga"s disease, Onchoceriasis and Trachoma; Rabies, Leptospirosis, Typhus, Plague, Hanta virus, etc.
- 1.7 Genetic Diseases: Sickle Cell, G6PD deficiency : Ectoparasites and Others: Scabies, Myiasis, louse infestations - pathogens; life-cycle; pathogenesis; pathology; clinical manifestation; diagnosis; treatment; prevention and control

### 2. Medical Problems in the Tropics

- 2.1 **Common problems and diseases in tropical region:** nutritional deficiency disorders; liver diseases; infectious diseases; tropical cutaneous diseases and tropical ulcer; endocrine disorders; treatment of diseases; prevention and vaccination
- 2.2 **AIDS:** epidemiology, pathogenesis; pathology; clinical manifestations; diagnosis; treatment; prevention and control
- 2.3 **Mycology:** Common fungal diseases in tropics and systemic mycosis epidemiology, pathogenesis; pathology; clinical manifestations; diagnosis; treatment; prevention
- 2.4 Epidemiology and Control of Communicable Diseases and Vaccine preventable diseases
- 2.5 Tropical Environmental Health heat induced illnesses and cold induced illnesses
  heat exhaustion, heat stroke; frost bite, etc.

लोक सेवा आयोग

नेपाल स्वास्थ्य सेवा, मेडिसिन समूह, ट्रपिकल मेडिसिन उपसमूह, नवौं (९) तहको खुला र आन्तरिक प्रतियोगितात्मक लिखित परीक्षाको पाठ्यकम

- 2.6 Sexually Transmitted Infections epidemiology, pathogenesis; pathology; clinical manifestations; diagnosis; treatment; prevention
- 2.7 Antibiotic Drug Resistance and Malaria drug therapeutic and Resistance Study
- 2.8 Updates on latest national treatment guidelines and protocols including national elimination programmes in communicable diseases malaria, kala-azar, Neglected Tropical Diseases, etc.
- 2.9 GIS (Geographical Information System) in tropical diseases

# 3. Viral diseases

## 3.1 Introduction of viral diseases

- 3.1.1 General characteristic, replication, genetic, epidemiology, pathogenesis of viruses
- 3.1.2 Classification of viruses
- 3.1.3 Laboratory diagnosis and use of molecular tools in viral diseases
- 3.1.4 Principles of treament of viral diseases
- 3.1.5 Antiviral therapy
- 3.1.6 Vaccinology
- 3.1.7 Emerging diseases: Novel viruses including SARS, MERS, Ebola virus, Nipha virus

# 3.2 Infection

- 3.2.1 Basic of transmission of viral diseases
- 3.2.2 Major manifestations of infections in viral diseases
- 3.2.3 Diseases due to viruses
- 3.2.4 Principles of management, including antiviral agents and prevention of infection

### 4. Travel Medicine:

- 4.1 Common problems and diseases in travelers: pre-travelling and post-travelling screening, counseling, prevention, management and vaccination
- 4.2 Pre-travel counseling, travel-related diseases prevention, travelers' malaria, travelers' diarrhoea, water purification for travelers, international health control, underwater hazard, vaccination care of returned traveler