

# Syllabus for Public Health Master's

## Section 1: Subject Knowledge

Please Note: A Total of 40 Questions will be asked, combining the following topics, with the difficulty level commensurate to a Master's Candidate.

### Unit I: Evolution and Basic Concepts of Public Health/ Social Medicine and Community Health

Evolution of public health policies and practices from ancient times to the modern era, emphasizing significant milestones and public health crises, social determinants of health, health equity, and the role of community health workers, infectious diseases, chronic illness, and health disparities.

### Unit II: Evolution of Health Policies and Health Services in India

Historical development of health policies and services in India from ancient times to the present day, technology integration, mental health, and environmental health issues, pre-colonial health practices, colonial health systems, post-independence policy frameworks, and contemporary health challenges.

### Unit III: General Epidemiology and Bio-statistics

History and concepts of public health, determinants of health, and health inequalities. Principles of epidemiology, study designs, and data analysis. Environmental science: impact of human activities on biodiversity, ecosystem services, climate change, and pollution. Sustainability, environmental policy, and urbanization effects.

### Unit IV: Social Sciences and Health

Social determinants of health, health inequalities, and public health policy. Globalization's impact on health, social behaviors, and disease patterns. Healthcare access, patient-provider relationships, health communication, and community health interventions.

### Unit V: Epidemiology of Common Health Problems In India and National Health Programmes

Communicable diseases (tuberculosis, malaria, HIV/AIDS) and non-communicable diseases (diabetes, cardiovascular diseases, cancer). Key programs: NTEP (tuberculosis), NACP (HIV/AIDS), and NPCDCS (cancer, diabetes, cardiovascular diseases, and stroke).

### Unit VI: Basic Determinants of Health

Biological (genetics, age), behavioral (lifestyle, substance use), social (socioeconomic status, education, social support), and environmental (living conditions, pollution) determinants. Healthcare access and quality (availability, affordability, effectiveness).

### Unit VII: Demography, Family Welfare, and RCH

Population dynamics, family planning methods, and public health strategies. Maternal health, child care, reproductive rights, and adolescent health. Prevention of STIs, and government programs to improve family health and reduce maternal and child mortality.

### Unit VIII: Health Education/ IEC/ BCC and Information Technology in Health

Understanding the principles, strategies, and applications of health education and communication technologies in healthcare, telemedicine, health apps, electronic health records, and decision-support systems.

## Unit IX: Health Systems Research, Planning and Management and Recent Advances in Public Health

Organization of health systems, policy development, and health services management. Research methods, disease prevention, and health promotion. Global health trends, technological advancements, non-communicable diseases, pandemics, and environmental health. Health equity, digital health, personalized medicine, and climate change impacts.

## Unit X: International Health

burden of disease globally, infectious and non-communicable diseases, maternal and child health, global health systems, and the impact of international organizations like the World Health Organization (WHO) and non-governmental organizations (NGOs).

### **Section 2: Fundamental Skills**

Please Note: A Total of 24 Questions will be asked, combining the following topics, with the difficulty level commensurate to a Master's Candidate.

Unit I: Data Analysis

Unit II: Math and Statistics

Unit III: Lab skills

Unit IV: Reading and Writing

### **Section 3: Specific Skill Proficiency**

This section has more than 30 skills. You can select the ones you are proficient in from the enrollment form. You can choose a maximum of 4 skills. Each skill contains 10 questions.