

**BHARATI VIDYAPEETH
(DEEMED TO BE UNIVERSITY), PUNE, INDIA
PhD Entrance Test – 2025**

SECTION-II: Public Health - 35 Marks

Basic Epidemiology

- History and evolution of epidemiology
- Scope and uses of epidemiology
- Epidemiology and clinical practice
- Measurements in epidemiology
- Distribution and determinants of disease
- Natural history of the disease
- Ethical and professional issues in epidemiology
- Epidemiological studies and surveys
- Bias in epidemiological studies
- Screening for diseases

Infectious disease epidemiology

- Dynamics of disease transmission
- Concepts of disease control, elimination, and eradication
- Epidemic/ Pandemic management
- Investigation of epidemic
- Surveillance of diseases

Biostatistics

- Definition and types of data
- Tabulation and presentation of data
- Data measurement - variation and dispersion
- Data management
- Sampling and planning of health survey including Sampling techniques
- Probability and its applications in public health
- Hypothesis testing
- Association, correlation and Regression
- Use of computers and various statistical packages

Vital statistics

- Demographic survey
- Evaluation of health and measurement of morbidity / mortality

Public Health administration

- Principles of organization and administration
- Health administration at state, Centre and Municipal Corporation
- Various Health policies

Health Care Delivery system

- Introduction to health systems
- Challenges and evolution of the health system in India
- The Health Care System in India and other countries – Structure and Function
- The public healthcare system in India
- The private healthcare system in India

- Voluntary health agencies
- Health planning in India

Health Management - Management Principles and Practices

- Management principles
- Time management
- Material management
- Management techniques
- Mobilizing community resources and creating demand for services
- Management of human resources

Public health issues

- Communicable diseases
- Life style related diseases
- Mental health issues
- Disaster management and role of public health specialist

Medical Sociology

- Social factors affecting health
- Socialization and social control
- Social stratification
- Social security in India
- Role of family and cultural factors in public health

Health Communication

- Principles of Health Education
- Communication process
- Practice (Methods) of IEC/BCC and its application in Public Health
- Evaluation BCC activities

Public Health Nutrition

- Nutritional problems of public health importance
- Food adulteration, Food fortification
- Nutritional programmes

Environment and Health

- Environmental issues affecting public health
- Environmental sanitation
- Medical Entomology

Reproductive and Child Health

- Gender issues in public health
- Common Maternal and child health problems at an individual and community Level
- RMNCH+A

National Health Programmes

- The origin, current state and critique of the different National Health Programmes,
- Implementation of NHPS at a programme level and in the community

Occupational Health

- Principles of Occupational Health
- Basics of Ergonomics
- Health Problems in organized and unorganized sectors

Law and Ethics in Public Health

International Health

Recent advances in public health like

- Emerging and reemerging diseases
- Artificial intelligence and public health
- GIS in Public Health