

## **SYLLABUS: EPIDEMIOLOGY AND PUBLIC HEALTH**

### **Paper 1 (1.5 hours)**

#### **(Problem-solving exercises)**

Epidemiologic research designs – descriptive, analytical and experimental epidemiology

Health services research – health systems research, implementation research, operational research

Public health surveillance

Basic demography and biostatistics

Measures of disease frequency, association, and effect

### **Paper 2 (1.5 hours)**

#### **(Short answer questions)**

Sources of bias - selection bias, information bias, confounding

Monitoring and Evaluation of public health programmes

Screening tests - sensitivity, specificity, and predictive values

Evidence-based medicine; grading of evidence

Social determinants of health

Health policy and health care management

Primary health care; universal health care

Levels of Prevention; Stages of Change

Scientific Writing and Review of Literature

Causal thinking in health

Basic terminology and definitions of epidemiology and public health