

Interdisciplinary School of Health Sciences
Online Entrance Examination (OEE) pattern: 2019-20

For the Courses: Master of Public Health (MPH) and M.S.c Health Sciences

Format of OEE: Multiple choice questions: total 40 questions of 2 marks each

Questions will be based on the syllabus.

The paper aims to test

- a) analytical ability of students
- b) interdisciplinary aptitude
- c) comprehension skills

Syllabus

- 1) Unit 1: Bachelor's degree level knowledge of life-sciences-** microbiology, pathology, biochemistry, basic knowledge of human biology, evolution, adaptation, genetics, important bacterial, viral, fungal, and protozoan diseases that affect humans with emphasis on: etiologic agents, body systems affected, modes of transmission, prevention, drug resistance, immunity.
- 2) Unit 2: General knowledge of public health:** Concept of health and disease; common health problems (e.g. causes of death in various age groups, commonly observed conditions), Epidemiological transition (e.g. burden of diabetes, cardiovascular diseases, cancer along with diarrhoea, respiratory infections, etc.), common infectious diseases (e.g. TB, HIV, Malaria, etc.), Emerging threats (e.g. Swine flu, Ebola), National health programmes (e.g. vaccination of children, etc.), health services (e.g. public, private, charitable trust, etc.)
- 3) Unit 3: General knowledge on determinants of health:** nutrition (basic requirements, conditions due to deficiencies and excess intake), hereditary, behavioural, environmental factors (e.g. air, water pollution, etc.), ecological factors-climate change, natural disasters, housing, social factors- violence, inequality, socioeconomic status, poverty, population growth
- 4) Unit 4: Applied research:** steps in scientific research, basic arithmetic skills, mean, median mode, sample, proportion, rates, ratio, Interpretation of tables and graphs, etc.

Readings/ References

- Bachelors' degree level books on life-sciences : Human biology, microbiology, biochemistry
- Textbooks of preventive and social medicine
- General reading on health, current issues in health and disease
- Introductory book on research methodology