INDIAN INSTITUTE OF PUBLIC HEALTH GANDHINAGAR (A University established under IIPHG Act, 2015 of Gujarat)

Syllabus for Entrance Exam of PhD Programme in Public Health

Overview

The entrance examination shall focus on research methodology (section I) and second portion shall focus on public health (Section II).

Section I: Research Methodology

Topics	Weightage
Introduction to Research	10%
Meaning of research, research paradigm, types of research, research problem,	
formulating problem statement, aim, objectives and research questions	
Literature review	10%
Types of literature review, literature search, identifying research gaps, writing	
literature review, conceptual framework, theoretical framework, analytical	
framework	
Research Design	20%
Research design, types of research designs, population, sample, variables,	
hypothesis, determination sample size, sampling techniques, selection of appropriate	
research design	
Data Collection	20%
Classification of data, benefits and drawbacks of data, evaluation and management	
of data, qualitative methods of data collection, types of measurements, criteria of	
good measurements, classification of scales.	
Data Analysis & Report writing	20%
Data cleaning, Descriptive and inferential statistics, qualitative data analysis, steps	
of report writing	
Ethics in research	20%
General principles on ethical considerations involving human/animal subjects,	
ethical review procedures, Institutional ethics committee, its organization and	
functions, general ethical issues.	

Suggested books:

- Research Design: Qualitative, Quantitative and Mixed Methods Approaches (Fifth Edition); By John Creswell and J. David Creswell, Sage Publications
- Research Methodology: A Step-by-Step Guide for Beginners; By Ranjit Kumar, Sage Publications
- IAPSM's Textbook of Comprehensive Research Methodology (2024). Chief Editor: Sanjay Zodpey, Jaypee Brothers Medical Publishers
- Methods in Biostatistics for Medical Students and Research Workers. 7th Edition (2018); By B K Mahajan, Jaypee Brothers Medical Publishers

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Section II: Public Health

Public Health	Weightage
Introduction to Public Health	20%
Core functions of public health, universal health coverage and universal access,	
Sustainable Development Goals related to health, health care systems, health sector	
planning, planning commission, NITI Ayog, demography & family planning,	
national health programmes – nutrition, maternal and child health, mental health,	
adolescent health, elderly care	
Epidemiology	20%
Definition of epidemiology, Epidemiological triad, burden of disease concept, India	
burden of disease estimates, proportion, ratio, incidence, prevalence, odds ratio,	
relative risk, attributable risk, attributable fraction, ecological study, cross sectional	
study, cohort study, case control study, randomised controlled trials, selection bias,	
information bias, confounding, disease surveillance, public health screening,	
sensitivity and specificity	
Occupational and Environmental Health	20%
Definition of occupational and environmental health, elements of industrial safety,	
elements of Industrial hygiene, environmental hazards and sources, climate change	
and impact on environment and health, occupational diseases, environmental	
disasters	
Health Policy and Management	20%
Globalization and health, economic evaluation of health, health economics, cost	
benefit and cost-effective analysis, health insurance, health care financing, health	
sector reforms, national health programs in India, policies and program formulation,	
implementation of health programs, monitoring and analyzing program outcomes,	
resource allocation	
Social & Behavioural sciences and global health	20%
definition of health, disease, illness, sickness and disorder, understand health and	
wellbeing through biomedical, social, behavioural, economic, political, regional,	
spatial, cultural and environmental influence, lifestyle and disease, health equity,	
health disparities, gender and health, health promotion, global health,	
decolonization, migration and health, urbanization & health	

Suggested books:

- Review of Preventive and Social Medicine. 14th Edition (2022); By Vivek Jain, Jaypee Brothers Medical Publishers
- IAPSM's Textbook of Community Medicine. 2nd Revised Edition (2021); Editor-AM Kadri, Jaypee Brothers Medical Publishers
- 3) National Health Programs of India. 14th edition (2022); By J Kishore, Century Publication.
- Social and Behavioural Science for Health Professionals. 1st Edition (2016); By Brian P. Hinote and Jason Adam Wasserman, Rowman & Littlefield Publishers.