## PUBLIC HEALTH AND HEALTHCARE, HEALTH ECONOMICS LIST OF EXAM QUESTIONS (2025/2026):

#	Section	Topic	Exam questions
1	Public Health. Methods of Public Health	Introduction to the Public Health. History of Public Health	<ul> <li>Main stages in the history of medicine and public health (Ancient World, Early Medieval period, Late Medieval period, 1500-1750 period, Scientific Revolution (1750-1830)</li> <li>Foundations of health statistics and epidemiology. Social reform and the sanitary movement (1830-1875). Hospital reform. The bacteriologic revolution. Microbiology and immunology.</li> </ul>
		Concepts of Health and Disease	• Concepts of Health and Disease: definition of health, 3+2 dimensions of health, determinants of health
		Health and Well-Being. Health Indicators.  International Classification of Diseases	Health and Well-Being: standard of living, HDI, PQLY, HPI
		Basics of Biostatistics. Biostatistics in Public Health	<ul> <li>Biostatistics: definition, types of data, graphical presentation of research results</li> <li>Biostatistics: measures of central tendency and measures of spread (calculation and application in biostatistics)</li> <li>Biostatistics: normal distribution and confidence interval (calculation of CI for the simple mean value)</li> </ul>
		Demonstra Francis Diagram d	Biostatistics: testing statistical hypotheses
		Demography. Family Planning and Contraception	<ul> <li>Demography: definition, demographic methods, demographic statics (indicators)</li> <li>Demography: components of population change (incl. fertility, mortality &amp; migration)</li> </ul>
		Measurements in Epidemiology. Analytical and Experimental Epidemiology	Epidemiology: definition, basic definitions, measurements of occurrence, measures of effect     Observational study designs: schemes, scientific problems when are effective, limitations and advantages
			• Interventional study designs: schemes, scientific problems when are effective, limitations and advantages
			• Systematic review & Meta-analysis as a source of information in public health (description, limitations, and advantages)
		Evidence Based Medicine / Practice	<ul> <li>Definition and aims of Evidence-Based Medicine. History of Evidence-Based Medicine.</li> <li>Ranking the quality of evidence. Levels of evidence. The 'evidence pyramid'.</li> </ul>
2	Global Burden of Diseases. Concept of Prevention	Natural History of Disease. Control of Disease.  Prevention of Diseases	<ul> <li>Natural History of Disease (differences of communicable and non-communicable diseases' NH)</li> <li>Concepts of Control of Disease. Monitoring and Surveillance</li> <li>Prevention of Disease: principles, levels</li> </ul>
		Screening of Disease	<ul> <li>Types of screening. Wilson and Jungner classic screening criteria, WHO 1968</li> <li>Basic Criteria of Screening: sensitivity, specificity, positive and negative predictive value. The Yield of a Screening Program</li> </ul>
		Principles of Health Promotion	<ul> <li>Definition and tasks of Health Promotion. History of Health Promotion</li> <li>Approaches of Health Promotion</li> </ul>
		Nutrition and Health	Nutritional Requirements: Daily Nutritional Requirements for Macronutrients, Nutritional requirements during pregnancy. Malnutrition (types, indicators)

		Mental Health Care. Genetics and Health	• Mental disorders as a public health problem: burden of mental illness, methods of prevention
		1.201tal Floatal Care. Selectes and Health	and control
			Alcohol and drug addiction as a public health problem: burden methods of prevention and
			control
			Suicides as a public health problem: worldwide epidemiology and prevention.
		Preventive Obstetrics, Preventive Pediatrics &	• Preventive Obstetrics: definition, aims, basic activities & objectives of antenatal care, criteria
		Preventive Geriatrics	of 'at risk infants' & 'at risk mothers'
			• Preventive Obstetrics: definition, aims, basic activities & objectives of intranatal care; clean
			and safe delivery; domiciliary midwifery service, & institutional delivery
			• Preventive Obstetrics: definition, aims, basic activities & objectives of postnatal care; neonatal
			screening
			Antenatal, Postnatal and Social Preventive Pediatrics: basic activities
		<ul> <li>Family Planning and Contraception</li> </ul>	Family cycle, types of family (nuclear family, joint family, extended family, and
			astronaut family) and their characteristics
		• Infectious Diseases as a Public Health Problem.	• Communicable diseases as a public health problem: definitions (CD, agent of CD, host of CD,
		Immunity. Vaccination	transmission of host), principles of prevention
			• Smallpox, Measles, Whooping Cough: definition, causative agent, incubation period, source of
			infection, mode of transmission, period of communicability, secondary attack rate, rash, and
			vaccination
			• Rubella, Mumps, Influenza (Flu): definition, causative agent, incubation period, source of
			infection, mode of transmission, period of communicability, secondary attack rate, rash, and
			vaccination • Tuberculosis, Polio, Hepatitis: definition, causative agent, incubation period, source of
			infection, mode of transmission, period of communicability, secondary attack rate, rash, and
			vaccination
		Non-Communicable Diseases as a Public	• Non-Communicable diseases (NCD) as a public health problem: definitions (NCD, risk factors,
		Health Problem	iceberg phenomenon of NCD)
			• International Classification of Diseases, 10th revision and 11th revision (definition, purpose,
			coding principles)
			• Cardiovascular diseases: definition (blocks of categories in ICD-10), risk factors, peculiarities
			of natural history and prevention of CVD)
			• Chronic obstructive pulmonary disease (COPD): definition (blocks of categories in ICD-10),
			risk factors, peculiarities of natural history and prevention of COPD)
			• Cancer: definition (blocks of categories in ICD-10), risk factors, peculiarities of natural history
			and prevention of cancer)
		Environmental Health. Occupational Health	Environmental health. The major subdisciplines
			• of environmental health
			• Water as an environmental concern: sources of water supply, quality of water, methods of
			water purification
			• Air as an environmental concern: indoor and outdoor air, ventilation, air pollution
		- Casial Caianasa and Harlet	Waste as an environmental concern, types of waste disposal.      Socials are 8. Socials are 1 Pages active. Socials are 1 Agrees to 4 Health and Madising.
	Healthcare. Health	Social Sciences and Health	Sociology & Sociological Perspective. Sociological Approach to Health and Medicine      Levels of while health levels in the property of
3	Economics. National	Health Legislation	<ul> <li>Levels of public health legislation: international, national, regional, local.</li> <li>Public health laws and their functions</li> </ul>
	Health Systems	• Quality of Madical Core	The concept of quality of medical care, its evolution
		Quality of Medical Care	- The concept of quanty of medical care, its evolution

	Characteristics of quality of medical care
	Legal regulation of the quality of medical care in Russia
Human Resources for Healthcare	<ul> <li>Monitoring and evaluation of human resources for health: monitoring, evaluation, indicators, data.</li> <li>Data sources for monitoring of human resources for health.</li> <li>Key indicators for monitoring and evaluation of human resources for health.</li> </ul>
Biomedical Waste Management. Disaster Management	Health, social and economic effects of disasters. Disaster management cycle
Health Economics. Health Planning and Management	<ul> <li>Models of health system financing.</li> <li>Social health insurance financing model in health care financing: principles, advantages, and disadvantages</li> <li>Socio-economic status and health. Socio-economic status scales. Social gradient</li> <li>Management: definition, principles of management. Administration vs. Management</li> <li>Management functions. Concepts in management. Styles of management</li> <li>Health Planning. Steps in planning. Human resources' planning</li> </ul>
Health care in Russia	<ul> <li>Health care in Russia: basic principles of health protection, organization of health protection</li> <li>Health care in Russia: classification of medical care by types, conditions, and forms of delivering</li> <li>Primary health care in Russia: functions of district doctor, peculiarities of primary health care provision to the residents of the rural territories</li> </ul>
Maternal and Child Care	<ul> <li>Antenatal care in Russia: objectives, antenatal visits</li> <li>Birth Weight: ELBW, VLBW, LBW, NBW, HBW. LBW prevention. Management of LBW Infants)</li> </ul>
Health Education and Communication	<ul> <li>Health communication: functions, stages, approaches.</li> <li>Areas for health communication: health literacy, health education, social marketing, risk communication, crisis communication, outbreak communication, health advocacy.</li> <li>Health education: definition, principles, ways and forms of health education, approaches in health education</li> <li>Group approach in health education: advantages and disadvantages.</li> </ul>
National Health Programs, Policies and Legislations	<ul> <li>Health policy: definition, differences between private and public policy. Policy triangle, its main components.</li> <li>Stages of health policy making process.</li> <li>International and national programs in the field of maternal and child health.</li> <li>International and national programs in the field of communicable diseases.</li> </ul>
International Health. International Health Agencies	<ul> <li>Global types of health care: classification.</li> <li>World Health Organization: structure, functions. International Health Agencies.</li> </ul>