

**RAJASTHAN PUBLIC SERVICE COMMISSION, AJMER**  
**SYLLABUS FOR SCREENING TEST FOR THE POST OF**  
**ASSISTANT PROFESSOR (Broad Speciality) P & SM**  
**MEDICAL EDUCATION DEPARTMENT**

- 1 History, Concepts and Practice of Community Medicine, Evolution of Medicine and public health services, principles of Preventive, Social and Community Medicine. Community diagnosis, Mendelian's law & Genetic Diseases and Genetic counseling.
- 2 Concepts of Health and Disease, Dimensions of Health and disease, determinants of health, ecology of health, indicators of health and disease, dynamics of disease transmission, Iceberg phenomenon, levels of prevention and interventions, life style diseases.
- 3 Social and behavioural sciences (Sociology, Social Psychology and Social Anthropology); concepts of society and culture, family and community structure, its characteristics and functions, group dynamics, leadership patterns, social stratification, social changes, urbanization and its problems, principles of learning, process of communication, cultural factors in relation to health and disease, social stress and deviant behaviour, medico-social work, hospital sociology, Health Problems of Urban Slums.
- 4 Introduction of Biostatistics and health statistics; Census and other sources of data; collection and presentation of data; Measures of central tendency, Measures of variability; elementary statistical analysis; tests of significance; sampling and sampling procedures; designing of experimental and community based studies; scope; sources and uses of health; Testing of hypothesis; life table. Correlation and regression analysis, Types of Research Methodology and its importance in Health.
- 5 Applied nutrition; Principles of Nutrition; nutritional requirements; balanced diets; deficiency diseases; nutritional assessment; ecology of malnutrition and approaches to control malnutrition; food toxins; food processing and preservation of various food stuffs; nutritive value of commonly consumed food articles; diet and diseases; food Additives fortification and enrichment; National programmes related to nutrition. Nutrition monitoring & Surveillance, Food Security Act.
- 6 Personal and environmental health; control of physical and biological environments for prevention of diseases and promotion of health; water; air; humidity; ventilation; light; radiation; noise and housing and their effect on health and preventive measures; meteorological environment and measuring equipment. Assessment of portable water.  
Disposal of wastes- Types, methods of collection, Storage and disposal, Safe disposal of Human excreta, municipal waste, camp sanitation. Disposal of E waste, Global Warming, Pre & Post Exposure Prophylaxis in Health Care.
- 7 Definition – Preparedness and Response to Natural disasters.  
Types of Disasters.  
Response to Disaster, Triage.

- National Disaster Management Authority.  
Impact on Health.
- 8 Classification & Management of Bio medical waste in Hospital and its related legislation.
  - 9 Health Education – Objectives, Approaches, Principles and Methods.  
Communication in Health, its type and mode.  
Counseling in Health.  
GATHER approach and its application in related Health and Disease.
  - 10 Aims of Epidemiology its uses, epidemiological approaches, rates and ratios; measurement of morbidity and mortality; epidemiological studies; association and causation; infectious disease epidemiology; disease transmission, principles and methods of disease control, investigation of epidemics, IDSP.
  - 11 Immunity; active and passive immunity and immunizing agents, History to recent Development and Adverse events after vaccination, evaluation of vaccine coverage in the community. cold chain, National Immunization schedule.
  - 12 Concepts of screening for disease; uses of screening, types of screening. Evaluation & screening test.
  - 13 Epidemiology of CVD, CHD, DM, HT, cancers, obesity, Blindness & Accidents. National programme related to Non-Communicable Disease.
  - 14 Epidemiology and prevention of communicable disease – Air borne, intestinal arthropod borne infections, Zoonotic disease, surface infections; STD, HIV/AIDS; emerging and reemerging infectious diseases, Food Poisoning, Parasitic infestations, Hospital Acquired Infection, Criteria for disease Eradication & Elimination, National Programmes related to various communicable disease.
  - 15 Maternal and child health problems; ante-natal, natal and post-natal care; social obstetrics; care of infants and children; low birth weight; infant feeding and weaning; growth and development; care of pre-school children; under five clinic; rights of a child; indicators of MCH care; social Paediatrics; school health services, care of handicapped children; behavioral problems in children; child labour etc., ICDS, NHM, Reproductive and Child Health – IMNCI, School Health Services, Adolescent Health, Gender issues and women empowerment, PC PNDT Act.  
PEM & Malnutrition treatment centre.
  - 16 Preventive geriatrics – health problems of aged and remedial measures, Actions towards Healthy ageing, National Policy on Older Persons, Geriatrics abuse, Benefits to senior citizens.
  - 17 Demography, Demographic cycle, Demographic Variables and trends, World Population Trend, Population Problem in India, Social Marketing Programmes in Health & Family Welfare, Family Welfare Services – family planning, contraceptive methods, MTP, approaches in family planning etc., National Population Policy, Evaluation of contraceptive methods, fertility indicators.
  - 18 Occupational health – physical, chemical, biological and psychological hazards, principles of prevention, industrial toxicology-lead, arsenic, chromium, mercury and various gases – sulfur dioxide, carbon monoxide, hydrogen sulphide and

- fluorine, Ergonomics, occupational accidents, sickness absentism, Legislation including ESI Act, Social security of woman in Industry.
- 19 Mental health – types of mental illnesses and prevention; mental health service in India; Alcoholism, Drug dependence & addiction, smoking hazards prevention and legislation.
  - 20 Principles of administration process – planning, management and evaluation, Various Committee, health policy, operational research, Health Management Functions, Supervision as Management tool, PERT, Health Care financing, Management Problems & their solutions.
  - 21 Three tier system, centre & state health care system.
  - 22 National Health Programmes & policies. Public Health Legislation.
  - 23 International and voluntary health agencies and their role in health sector. Global Health Security and International Health Regulations, International Statistical classification of Disease and Related Health Problems, Public health aspect of international travellers., Bio-Terrorism, SDG.
  - 24 Uses of IT in Community Medicine, Computer Application & Telemedicine.

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**Pattern of Question Papers:**

1. **Objective Type Paper**
2. **Maximum Marks: 180**
3. **Number of Questions: 180**
4. **Duration of Paper : Three Hours**
5. **All Questions carry equal marks**
6. **Medium of Screening Test: English**
7. **There will be Negative Marking**  
(1/3 part of the mark(s) of each question will be deducted for each wrong answer)