

Syllabus for the preliminary Examination for the post of Health Officer, Class-II, in the Gandhingar Municipal Corporation

Marks- 200

Questions- 200

Medium-English

1. ANATOMY

Anatomical Terminology, Gross Anatomy of the Hip joint, shoulder joint, Heart. Lungs, Spleen, Kidneys, Uterus, Ovaries, Coronary Circulation, Thyroid, Pancreas. Gross Anatomy of carotid-vertebral system. Gross anatomy of Thalamus and internal capsule.

2. PHYSIOLOGY AND BIOCHEMISTRY

Neurophysiology of sensory receptors, reticular formation, cerebellum and basal Ganglia. Regulation of function of male and female gonads, including physiology of lactation and menstruation. Mechanical and electrical properties of the heart. ECG, Cardiac cycle. Regulation of cardiovascular function, Regulation of respiration. Absorption, Digestion, Metabolism of fats, carbohydrate and protein. Renal Function Tests. Urine Examination, stool examination.

3. PATHOLOGY AND MICROBIOLOGY

Principles of Inflammation. Principles of Carcinogenesis and Tumor spread. Markers in infective Hepatitis. Pathogenesis of Tuberculosis. Diagnosis of Tuberculosis. Immune system. Lifecycle and laboratory diagnosis Entamoeba, malaria. Culture media-types and uses. Immunity and immunology. Sterilization and disinfection. Bio-medical waste-sources, health hazards, methods of collection and disposal of it. Collection, storage and onward transmission of biological samples for laboratory procedures. Common epidemic causing organisms and methods of epidemic investigation. Examination of Urine for albumin and sugar. Examination of stool for ova and cyst of common helminths. Examination of blood for Hemoglobin, Bleeding time and clotting time, E.S.R., peripheral blood smear for Malaria parasites and haematology.

4. FORENSIC MEDICINE

Forensic Examination of Injuries and Wounds. Postmortem Examination of Homicidal Case.

5. GENERAL MEDICINE

Cardiology, Respiratory diseases, Gastro-intestinal, Genito-Urinary, Neurology, Hematology, Endocrinology, Metabolic disorders, Infections/Communicable Diseases: Virus, Rickets, Bacterial, Spirochetal, Protozoan, Metazoan, Fungus; Nutrition/Growth, Diseases of the skin (Dermatology), Musculoskeletal System, Psychiatry, General, Emergency Medicine, Common Poisoning, Snake bite, Tropical Medicine, Critical Care Medicine, Emphasis on medical procedures, Patho physiological basis of diseases, Vaccines preventable diseases and Non vaccines preventable diseases, Vitamin deficiency diseases, In psychiatry include – Depression, psychosis, anxiety, bipolar diseases and Schizophrenia.

6. PAEDIATRICS

Common childhood emergencies, Basic new born care, Normal developmental milestones, Accidents and poisonings in children, Birth defects and counseling including autism, Immunization in children, Recognizing children with special needs and management, and National Programmes related to child health.

7. SURGERY (INCLUDING ENT, OPHTHALMOLOGY, TRAUMATOLOGY & ORTHOPAEDICS)

General Surgery: Wounds, Infections, Tumors, Lymphatic, Blood vessels, Cysts/sinuses, Head and neck, Breast, Alimentary tract, Liver, Bile, Pancreas, Spleen, Peritoneum, Abdominal wall, Abdominal injuries; Urological Surgery, Neuro Surgery, Otorhinolaryngology E.N.T., Thoracic surgery, Orthopedic surgery, Ophthalmology, Anesthesiology, Traumatology, Diagnosis and management of common surgical ailments, Pre-operative and post-operative care of surgical patients, Medicolegal and ethical issues of surgery, Wound healing, Fluid and electrolyte management in surgery, Shock patho-physiology and management.

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8. GYNAECOLOGY & OBSTETRICS

OBSTETRICS: Ante-natal conditions, Intra-natal conditions, Post-natal conditions, Management of normal labours or complicated labour

GYNAECOLOGY: applied anatomy, applied physiology of menstruation and fertilization, infections in genital tract, neoplasma in the genital tract. displacement of the uterus, Normal delivery and safe delivery practices, High risk pregnancy and management, Abortions, Intra Uterine growth retardation. Medicolegal examination in obgy and Gynae including Rape.

FAMILY PLANNING: Conventional contraceptives, U.D. and oral pills. Operative procedure, sterilization and organization of Programmes in the urban and rural surroundings, Medical Termination of Pregnancy.

9. PREVENTIVE SOCIAL AND COMMUNITY MEDICINE

Social and Community Medicine, Concept of Health, Disease and Preventive Medicine, Health Administration and Planning, General Epidemiology, Demography and Health Statistics, Communicable Diseases, Environmental Health, Nutrition and Health, Non-communicable diseases, Occupational

Health, Genetics and Health, International Health, Medical Sociology and Health Education, Maternal and Child Health, National Health Programmes, common health problems, maternal and child wellness, community health problems including malnutrition and emergencies.

10. HEALTH SCENARIO OF GUJARAT STATE

Health statistics of Gujarat, Disease profile of Gujarat, Health monitoring including E-monitoring structure of Gujarat, Medical and Para Medical education in Gujarat, Occupational disease in Gujarat, Epidemic and endemic disease of Gujarat state, Health related institutions in Gujarat, Various Health programs, National Health Mission, National Rural Health Mission, National Urban Health Mission, WHO Role & Monitoring in various health programs, IEC activities of health, Communitisation activities like ASHA (Accredited Social Health Activist), Rogi Kalyan Samiti, Village Health and Sanitation committee etc.

11. CURRENT TRENDS AND RECENT ADVANCEMENTS IN
THE FIELD OF MEDICAL SCIENCE AND GOVERNMENT
HEALTH PROGRAMMES.



(Prasun Patel)
DEPUTY SECRETARY
GUJARAT PUBLIC SERVICE COMMISSION