



# Gujarat Public Service Commission

Advt. No.-82/2024-25

Syllabus for Combined Competitive Examination for the  
posts of Medical Officer, Class-II, and Tutor, Class-II and  
Insurance Medical Officer(Allopathy), Class-II

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**Scheme of Combined Competitive Examination for the  
posts of Medical Officer, Class-II and Tutor, Class-II  
and Insurance Medical Officer (Allopathy), Class-II**

Sr. no.	Name of the Paper	Nature of Exam	Time	Total Allotted Marks	
1	Medical Science-I	Objective	02 Hours	200	
2	Medical Science-II		02 Hours	200	
Total Marks in Written Examination				400	
Personality Test(Only for the Candidates who are declared qualified in Written Examination)				100	
Total Marks to be considered for Final Selection				500	

**Note:** The medium of written examination shall be English.

**Syllabus for Written Examination for  
Combined Competitive Examination for the  
posts of Medical Officer, Class-II, and Tutor,  
Class-II and Insurance Medical  
Officer(Allopathy), Class-II**

## **Medical Science-I**

Marks-200 No. of Questions:200

Medium: English

Time:2Hours

### **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.

## **Medical Science-II**

Marks-200 No. of Questions:200 Medium: English Time:2Hours

### **1. 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 pathophysiology and management.

### **2. GYNAECOLOGY & OBSTETRICS**

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

**GYNAECOLOGY:** Applied anatomy, applied physiology of menstruation and fertilization, infections in genital tract, neoplasia 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.

### **3. 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.

### **4. CLINICAL FEATURES, CAUSES, DIAGNOSIS AND PRINCIPLES OF MANAGEMENT**

Cervical Lymphnode, Parotid Tumor, Oral Cancer, Cleft palate, Hare Lip Peripheral Vascular diseases, Varicose Vein, Filariasis, Pul. Embolism. Dysfunction of Thyroid, Parathyroid, Adrenal, Pituitary tumors. Cancer Breast/Benign Breast conditions. Acute & Chronic appendicitis, Bleeding Peptic Ulcer, Tuberculosis of Bowel, Intestinal Obstruction. Renal Mass, Acute retention of urine, benign prostate hypertrophy. Splenomegaly- Surgical Management, Chr. Cholecystitis, Liver abscess, (parasitic & inflammatory, Peritonitis, Ca. head pancreas). Direct & indirect inguinal Hernia & their complications, Etiology and Management of Burns.

## **5      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, Role & Monitoring of W.H.O. 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.

## **5.    CURRENT TRENDS AND RECENT ADVANCEMENTS IN THE FIELD OF MEDICAL SCIENCE AND GOVERNMENT HEALTH PROGRAMMES.**