

<p style="text-align: center;">પ્રાથમિક કસોટીનો અભ્યાસક્રમ</p> <p style="text-align: center;">પ્રશ્નપત્ર-૧ (Part-I)</p> <p>જા.ક- ૧૧૯/૨૦૨૦-૨૧, મદદનીશ નિયામક (કા.રા.વિ.યો), વર્ગ-૧</p> <p>માધ્યમ: ગુજરાતી <span style="float: right;">કુલ ગુણ : ૧૦૦</span></p>	
૧	ભારતની ભૂગોળ- ભૌગોલિક, આર્થિક, સામાજિક, કુદરતી સંસાધન અને વસ્તી અંગેની બાબતો- ગુજરાતના ખાસ સંદર્ભ સાથે
૨	ભારતનો સાંસ્કૃતિક વારસો- સાહિત્ય, કલા, ધર્મ અને સ્થાપત્યો- ગુજરાતના ખાસ સંદર્ભ સાથે
૩	ભારતનો ઇતિહાસ- ગુજરાતના ખાસ સંદર્ભ સાથે
૪	ભારતની અર્થવ્યવસ્થા અને આયોજન
૫	<p><u>ભારતીય રાજનીતિ અને ભારતનું બંધારણ:</u></p> <p>(૧) આમુખ</p> <p>(૨) મૂળભૂત અધિકારો અને ફરજો</p> <p>(૩) રાજ્યનીતિના માર્ગદર્શક સિદ્ધાંતો</p> <p>(૪) સંસદની રચના</p> <p>(૫) રાષ્ટ્રપતિની સત્તા</p> <p>(૬) રાજ્યપાલની સત્તા</p> <p>(૭) ન્યાયતંત્ર</p> <p>(૮) અનુસૂચિત જાતિ, અનુસૂચિત જનજાતિ અને સમાજના પછાત વર્ગો માટેની જોગવાઈઓ</p> <p>(૯) એટર્ની જનરલ</p> <p>(૧૦) નીતિ આયોગ</p> <p>(૧૧) પંચાયતી રાજ</p> <p>(૧૨) નાણા પંચ</p> <p>(૧૩) બંધારણીય તથા વૈધનિકસંસ્થાઓ- ભારતનું ચૂંટણી પંચ, સંઘ લોક સેવા આયોગ, રાજ્ય લોક સેવા આયોગ, કોમ્પ્ટ્રોલર એન્ડ ઓડિટર જનરલ; કેન્દ્રીયસતર્કતા આયોગ, લોકપાલ તથા લોકાયુક્ત અને કેન્દ્રીય માહિતી આયોગ</p>
૬	સામાન્ય બૌદ્ધિક ક્ષમતા કસોટી
૭	સામાન્ય વિજ્ઞાન, પર્યાવરણ અને ઈન્ફર્મેશન એન્ડ કોમ્યુનિકેશન ટેકનોલોજી
૮	ખેલ જગત સહિત રોજબરોજના પ્રાદેશિક, રાષ્ટ્રીય અને આંતરરાષ્ટ્રીય મહત્વના બનાવો

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Syllabus of Preliminary Test  
Paper-1 (part-I)

**Advt- 119/2020-21, Assistant Director (E.S.I.S), Class-1**

Medium: Gujarati

Total Marks- 100

1	Geography of India-Physical, Economic, Social, Natural Resources and population related topics- with special reference to Gujarat
2	Cultural heritage of India-Literature, Art, Religion and Architecture- with special reference to Gujarat
3	History of India with special reference to Gujarat
4	Indian Economy and Planning
5	<u>Indian Polity and the Constitution of India:</u> (1) Preamble (2) Fundamental Rights and Fundamental Duties (3) Directive Principles of State Policy (4) Composition of Parliament (5) Powers of the President of India (6) Powers of Governor (7) Judiciary (8) Provisions for Scheduled Castes, Scheduled Tribes and backward classes of the society (9) Attorney General (10) NITI Aayog (11) Panchayati Raj Institutions (12) Finance Commission (13) Constitutional and Statutory Bodies: Election Commission of India, Union Public Service Commission, State Public Service Commission, Comptroller and Auditor General; Central Vigilance Commission, Lokpal and Lokayukta, Central Information Commission
6	General Mental Ability
7	General Science, Environment and Information & Communication Technology
8	Daily events of Regional, National and International Importance including Sports

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# **Syllabus for the Preliminary Test for the recruitment of**

## **Assistant Director (ESIS), Class-I**

### **Advt no- 119/2020-21**

#### **Part-2**

**Marks – 200**

**Questions-200**

**Medium: English**

1. **Anatomy**

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. Medicine (Including Psychiatry, Skin etc.)**

Common Genetic Diseases, Genetic Counseling. Normal Immunoglobulins, Various immune Reactions. Disorders of Acid-Base balance. Protein-Fat-Carbohydrate Deficiency Disorders. Vitamins in Health and its Disorders. Approach to infective disorder, clinical features, diagnosis, treatment and prevention of infection (Common Gram positive and Negative organism). Common Anaerobic Infections. Common Protozoa and Helminthic infection. Common fungal infection. Common Viral infection including HIV-AIDS. Physical Examination and investigation in Cardiovascular System Diseases. Disorders of Cardiac Rhythm and Conduction. Congestive Heart Failure. Ischaemic Heart Disease. Hypertension. Rheumatic Heart Disease. Congenital Heart Diseases. Infective Endocarditis. Symptomatology, Physical Examination, Clinical Investigations in Respiratory Diseases. Pneumonia. Bronchial Asthma-Status Asthmaticus. Chronic Obstructive Pulmonary Disease. Occupational Lung Disease. Diseases of Pleura and Pleural Cavity. Introduction of artificial respiratory Support. Symptomatology-Physical Examination and investigations of GI Tract, Diseases of Stomach, Duodenum, Large and small

intestine (including Inflammatory Disease). Diseases of Pancreas and Hepatobiliary Diseases. Bilirubin Metabolism and Approach in Jaundice Patients. Acute and Chronic Liver Parenchymal Diseases. Serological Markers in Infective Hepatitis. Passive and active Immunization against Infective Hepatitis. Kidney Function Tests. Acute Glomerulonephritis. Acute and Chronic Renal Failure & Introduction to Renal Transplantation. Nephritic Syndrome. Thyroid Function Tests. Adrenal Function Tests. Thyrotoxicosis, Hyperthyroidism, Hypothyroidism. Addison's Disease. Diabetes Mellitus. Approach to a patient of Anemia, Iron Deficiency Anemia. Blood Transfusion and Blood Component Therapy. Bone Marrow Transplant: Basic Principles. Acute Leukemia. Symptomatology, Physical Examination investigations in case of CNS Diseases. CV Stroke. Parkinsonism. Approach in a patient of Coma. Peripheral Neuropathy, Myopathy. Paraplegia. Epilepsy. Cranial nerves and its diseases. Epilepsy. Common poisoning, management of Poisoning and Universal Antidote. Snake Bite, Insect Bite. Tropical Diseases. Connective Tissue Diseases. Neuroses, Psychosis, Mental Retardation.

## **6. Pediatrics**

Growth and Development. Nutrition including Breastfeeding, supplementary feeding. Diagnosis and management of common Nutritional Problems. New Born-Classification: Full term. LBW, Pre-term. Assessment of Gestation by modified Ballard Score. Essential Care of normal newborn. National immunization programme. Antenatal Pediatrics. Common Childhood infection: Diarrhoeal Diseases. Acute Respiratory Infection. Vaccine Preventable Diseases. Helminthic and parasitic Diseases, Viral Diseases. Common Pediatric Illness. Care of Newborn. Common Neonatal Problems.

**7. Preventive and Social Medicine (Community Medicine)**

Concept of health and Disease. Medical Sociology. Environmental Health. Nutrition and Health. General and Systemic Epidemiology. Occupational Health. Maternal and Child Health. Demography and population dynamics and family welfare programme. Public health administration and Hospital Management. National Health Programmes. Health information and Basic health statistics.

**8. Obstetrics and Gynecology**

Diagnosis of Pregnancy. Pelvic Inflammatory Disease. Antenatal Care. Sexually transmitted Diseases in Women. Diagnosis of High Risk Pregnancy. Menstrual Disorders. Management of Labor. Postpartum Hemorrhage. PID. Infertility: Etiology and Basic workup. Abortion (a) Spontaneous: Types, Diagnosis & Management (b) Induced: Methods, MTP Law. leucorrhoea. Screening for Cervical smear.

**9. Surgery**

Surgical Management of critically ill patient. Surgical Management of patient having Polytrauma. Surgical Procedures, & Post-Operative Complication. Vasectomy including No-Scalpel Vasectomy. Perioperative critical care (Resp. Care etc.). ET Intubation. PVD-Peripheral Vascular Diseases.

**10. 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.

- 11. The Employees' State Insurance Act, 1948 (Amended from time to time) and Rules thereunder.**
- 12. The Functions of Gujarat Medical Services Corporation Ltd.**
- 13. Current Trends and Recent Advancements in the field of ESIS.**