

પ્રાથમિક કસોટીનો અભ્યાસક્રમ	
પ્રશ્નપત્ર-૧	
માધ્યમ: ગુજરાતી	કુલ ગુણ :૧૦૦
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	ભારતીય રાજનીતિ અને ભારતનું બંધારણ: (૧) આમુખ (૨) મૂળભૂત અધિકારો અને ફરજો (૩) રાજ્યનીતિના માર્ગદર્શક સિદ્ધાંતો (૪) સંસદની રચના (૫) રાષ્ટ્રપતિની સત્તા (૬) રાજ્યપાલની સત્તા (૭) ન્યાયતંત્ર (૮) અનુસૂચિત જાતિ, અનુસૂચિત જનજાતિ અને સમાજના પછાત વર્ગો માટેની જોગવાઈઓ (૯) એટર્ની જનરલ (૧૦) નીતિ આયોગ (૧૧) પંચાયતી રાજ (૧૨) નાણા પંચ (૧૩) બંધારણીય તથા ધાર્મિક સંસ્થાઓ- ભારતનું ચૂંટણી પંચ, સંઘ લોક સેવા આયોગ, રાજ્ય લોક સેવા આયોગ, કોમ્પ્રોલર એન્ડ ઓડિટર જનરલ; કેન્દ્રીય સતર્કતા આયોગ, લોકપાલ તથા લોકાયુક્ત અને કેન્દ્રીય માહિતી આયોગ
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

Syllabus of Preliminary Test Paper-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

**Syllabus for the preliminary test for the recruitment on the post of
Paediatrics (Specialist Service), Class I in Gujarat Health and Medical
Services and Services under Employees State Insurance Scheme**

Marks – 200

Questions - 200

Medium - English

1. Basic Sciences

Principles of inheritance, chromosomal disorders, single gene disorders, multifactorial/ polygenic disorders, genetic diagnosis and prenatal diagnosis, pedigree drawing, Embryogenesis or different organ system especially heart, genitourinary system, gastrointestinal tract Applied anatomy and functions of different organ systems, Physiology of micturition and defecation; placental physiology; foetal and neonatal circulation; regulation of temperature, blood pressure, acid base balance, fluid electrolyte balance and calcium metabolism, Vitamins and their functions, Haematopoiesis, haemostasis, bilirubin metabolism, Growth and development at different ages, growth charts; puberty and its regulation, Nutrition, requirements and sources of various nutrients, Pharmacokinetics of common drugs, microbial agents and their epidemiology, Basic immunology, ethical and medico-legal issues.

2. Growth and development

Principles of growth and development, normal growth and development, abnormal growth and development , sexual maturation and its disturbances, failure to thrive and short stature, Autism (as mentioned in objective 21)

3. Neonatology

Perinatal care , low birth weight, care in the labor room and resuscitation, new-born feeding, prematurity, respiratory distress, common transient phenomena, apnoea, infections, anaemia and bleeding disorders, jaundice, gastrointestinal disorders, neurologic disorders, malformations, renal

disorders, understanding of perinatal medicine, thermoregulation and its disorders.

4. Nutrition

maternal nutritional disorders, nutrition for the low birth weight impact on foetal outcome, breast feeding, infant feeding including, vitamin and mineral deficiencies, complementary feeding, protein energy malnutrition, obesity, adolescent nutrition, parenteral and enteral nutrition, nutritional management of systemic illness (GI, hepatic, renal illness).

5. Cardiovascular

Congenital heart diseases, rheumatic fever and rheumatic heart (cyanotic and a cyanotic) disease, infective endocarditis, arrhythmia, disease of myocardium, diseases of pericardium (cardiomyopathy, myocarditis), systemic hypertension.

6. Respiratory

Congenital and acquired disorders of nose, infections of upper respiratory tract tonsils and adenoids, obstructive sleep apnoea, congenital anomalies of lower respiratory tract acute upper airway obstruction, foreign body in larynx trachea & bronchus, subglottic stenosis (acute, chronic) asthma, pneumonia, bronchiolitis, aspiration pneumonia, GER, recurrent, interstitial pneumonia, supportive lung disease, atelectasis, lung cysts, mediastinal mass, diseases of pleura.

7. Gastrointestinal and liver disease

Disease of oral cavity, disorders of deglutition and oesophagus, peptic ulcer disease, congenital pyloric stenosis, intestinal obstruction, acute & chronic pancreatic disorders, malabsorption syndrome, acute, persistent and chronic diarrhoea, irritable bowel syndrome, inflammatory bowel

disease, Hirsch sprung disease, anorectal malformations, hepatitis, hepatic failure, chronic liver disease, and Budd-Chiari syndrome, metabolic diseases of liver, cirrhosis and portal hypertension.

8. Nephrology and Urologic disorders

Acute and chronic glomerulonephritis, nephrotic syndrome, haemolytic uremic syndrome, urinary tract infection, VUR and renal scarring, involvement in systemic diseases, renal tubular disorders, neurogenic bladder, voiding dysfunction, congenital and hereditary renal disorders, renal and bladder stones, posterior urethral valves, hydro nephrosis, undescended testis, hernia, hydrocele, Wilms tumour.

9. Neurologic disorders

Seizure and non-seizure paroxysmal events, epilepsy, epileptic syndromes, meningitis, encephalitis, brain abscess, febrile encephalopathies, Guillain-Barre syndrome, neurocysticercosis and other neuroinfestations, HIV encephalopathy, SSPE, cerebral palsy, neurometabolic disorders, neurodegenerative disorders, neuromuscular disorders, mental retardation, learning disabilities, muscular dystrophies, acute flaccid paralysis and AFP surveillance, malformations, movement disorders, Tumours.

10. Haematology & Oncology

Deficiency anaemias, haemolytic anaemias, aplastic anaemia, pancytopenia, thrombocytopenia, disorders of haemostasis, blood component therapy, transfusion related infections, bone marrow transplant/stem cell transplant, acute and chronic leukaemia, myelodysplastic syndrome, Lymphoma, neuroblastoma, hypercoagulable states.

11. Endocrinology

Hypopituitarism/hypopituitarism, diabetes insipidus, pubertal disorders, hypo- and hyper-thyroids, adrenal insufficiency, Cushing's syndrome, adrenogenital syndromes, diabetes mellitus, hypoglycaemia, short stature, gonadal dysfunction and intersexuality, obesity.

12. Infections

Bacterial (including tuberculosis), viral (including HIV), fungal, parasitic, rickettsial, mycoplasma, protozoal and parasitic, nosocomial infections, control of epidemics and infection prevention, safe disposal of infective material.

13. Emergency and Critical Care

Emergency care of shock, cardio-respiratory arrest, respiratory failure, acute renal failure, status epilepticus, acute severe asthma, fluid and electrolyte disturbances, acid-base disturbances, poisoning, accidents, scorpion and snake bites.

14. Immunology and Rheumatology

Arthritis (acute and chronic), vasculitides, immunodeficiency syndromes, systemic lupus erythematosus.

15. ENT

Acute and chronic otitis media, hearing loss, post-diphtheritic palatal palsy, acute/chronic tonsillitis/adenoids, allergic rhinitis/sinusitis, foreign body.

16. Skin Diseases

Exanthemata's illnesses, vascular lesions, pigment disorders, vesicobullous disorders, infections, Steven-Johnson syndrome, atopic, seborrheic dermatitis, drug rash, alopecia, ichthyosis.

17. Eye problems

Refraction & accommodation, partial/total loss of vision, cataract, night blindness, strabismus, conjunctival and corneal disorders, disorders of retina, including tumours.

18. Behavioural and Developmental disorders

Rumination, pica, enuresis, encopresis, sleep disorders, habit disorders, breath holding spells, anxiety disorders, mood disorders, temper tantrums, attention deficit hyperactivity disorders, autism (as mentioned in objective 21).

19. Social/Community Paediatrics

National health programs related to child health, IMNCI, Vaccines: constituents, efficacy, storage, contraindications and adverse reactions, rationale and methodology of pulse polio immunization, child labor, abuse, neglect, adoption, disability and rehabilitation, rights of the child, National policy of child health and population juvenile delinquency, Principles of prevention, control of infections (food, water, soil, vector borne), Investigation of an epidemic.

20. Orthopaedics

Major congenital orthopaedic deformities, bone and joint infections, common bone tumours.

21. Approach to Clinical Problems

- **Growth and development:** precocious and delayed puberty, developmental delay, impaired learning
- **Neonatology:** low birth weight new-born, sick new-born

- **Nutrition:** lactation management and complementary, protein energy malnutrition feeding (underweight, wasting, stunting), failure to thrive and micronutrient deficiencies
- **Cardiovascular:** Murmur, cyanosis, congestive heart failure, systemic hypertension arrhythmia, shock
- **GIT and Liver:** Acute diarrhoea, persistent and chronic diarrhoea, abdominal pain and distension, ascites, vomiting, constipation, gastrointestinal bleeding, jaundice, hepatosplenomegaly, hepatic failure and encephalopathy
- **Respiratory:** Cough/chronic cough, haemoptysis, wheezy child, respiratory distress
- **Infections:** acute onset pyrexia, prolonged pyrexia with and, recurrent infections without localizing signs, nosocomial infections, fever with exanthema
- **Renal:** Haematuria/dysuria, bladder/bowel incontinence, voiding dysfunctions, renal failure (acute and chronic), hypertension
- **Haematology and Oncology:** anaemia, bleeding
- **Neurology:** limping child, convulsions, paraplegia, quadriplegia, cerebral palsy, macrocephaly and microcephaly, floppy infant, acute flaccid paralysis, headache
- **Endocrine:** thyroid swelling, ambiguous genitalia, obesity, short stature
- **Miscellaneous:** skin rash, lymphadenopathy, epistaxis, proptosis, arthralgia, arthritis

22. Current Trends and Recent Advancements in Paediatrics.