

જીયાનું નામ: સરકારી ડેન્ટલ કોલેજોમાં પ્રાધ્યાપક, વર્ગ-૧(જા.ક.-૦૬/૧૮-૧૯)

પીડોડોન્ટીક્સ ( પેડીયાટ્રીક) એન્ડ પ્રિવેન્ટીવ ડેન્ટીસ્ટ્રી

કુલ પ્રશ્નો:300	પ્રાથમિક કસોટીનો અભ્યાસક્રમ	કુલ ગુણ -300
માધ્યમ: ગુજરાતી	સામાન્ય અભ્યાસ	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 વૈધનિક સંસ્થાઓ- ભારતનું ચૂંટણી પંચ, સંઘ લોક સેવા આયોગ, રાજ્ય લોક સેવા આયોગ, કોમ્પ્ટ્રોલર 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	

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<b>Post: Paedodontics ( Paediatric ) &amp; Preventive Dentistry, Professor Class-I,</b>	
<b>(Advt. No.06/18-19) in Government Dental College</b>	
Total Questions:300    Syllabus of Preliminary Test    Total Marks-300	
<b>Part-I</b>	
Medium: Gujarati	General Study
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> <ol style="list-style-type: none"> <li>(1) Preamble</li> <li>(2) Fundamental Rights and Fundamental Duties</li> <li>(3) Directive Principles of State Policy</li> <li>(4) Composition of Parliament</li> <li>(5) Powers of the President of India</li> <li>(6) Powers of Governor</li> <li>(7) Judiciary</li> <li>(8) Provisions for Scheduled Castes, Scheduled Tribes and backward classes of the society</li> <li>(9) Attorney General</li> <li>(10) NITI Aayog</li> <li>(11) Panchayati Raj Institutions</li> <li>(12) Finance Commission</li> <li>(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</li> </ol>
6	General Mental Ability
7	General Science, Environment and Information & Communication Technology
8	Daily events of Regional, National and International Importance including Sports

Post: Paedodontics ( Paediatric ) & Preventive Dentistry, Professor Class-1  
(adv.No.06/18-19) in Government Dental College

**Part-II Syllabus Of Preliminary Test**

**(Paedodontics ( Paediatric ) & Preventive Dentistry)**

**Medium: English**

**Questions:200**

**Marks : 200**

**1. Basic Applied Science**

Applied Anatomy & genetics. Applied Physiology. Applied Pathology. Nutrition and Dietics. Growth & Development: Prenatal and Postnatal development of cranium, face, jaws, teeth and supporting structure. Chronology of dental development and development of occlusion. Dimensional changes in dental arches. Cephalometric evaluation of growth. Child Psychology: Development & Classification of behavior personality, intelligence in apprehension & its management. Behavior Management: Non – pharmacological & pharmacological methods. Child Abuse & Dental Neglect. Conscious Sedation, Deep Sedation & General Anesthesia in Pediatric Dentistry.

**2. Preventive Pedodontics**

Concepts, chair side preventive measures for dental disease, high-risk caries including rampant & extensive caries – Recognition, Features & Preventive Management, Pit and Fissures Sealants, Oral Hygiene measures, Correlation of brushing with dental caries and periodontal diseases. Diet & Nutrition as related dental caries. Diet Counseling.

**3. Dental Plaque**

Definition, Initiation, Pathogenesis, Biochemistry, and Morphology & Metabolism.

**4. Microbiology & Immunology related to Oral Diseases in Children**

Basic concepts, immune system in human body, auto Immune disease,

Histopathology, Pathogenesis, Immunology of dental caries, Periodontal diseases Tumors, Oral Mucosal lesions etc.

**5. Gingival & Periodontal disease in Children**

Normal Gingiva & Periodontium in children. Gingival & Periodontal disease – Etiology, Pathogenesis, Prevention & Management.

**6. Pediatric Operative Dentistry**

Principle of Operative dentistry along with modifications of materials/past, current & latest including tooth colored materials. Modifications required for cavity preparation in primary and young permanent teeth. Various Isolation Techniques. Restorations of decayed primary, young permanent and permanent teeth, in children using various restorative material like Class Ionomer, Composites, Silver, Amalgam & latest material (gallium). Stainless steel, Polycarbonate & Resin Crowns / Veneers & fibre pvit systems.

**7. Pediatric Endodontic:**

Primary Dentition: Diagnosis of pulpal disease and their management – pulp capping, Pulpotomy, Lumpectomy (Materials & Methods), controversies & recent concepts. Young permanent teeth and permanent teeth, Pulp capping, Pulpotomy, Apexogenesis, apexification, Concepts, Techniques and Materials used for different procedures. Recent advances in Pediatric diagnosis and Endodontics.

**8. Prosthetic consideration in Pediatric Dentistry.**

**9. Traumatic Injuries in Children**

Classifications & Importance. Squeal & reaction of teeth to trauma. Management of Traumatized teeth with latest concepts. Management of jaw fracture in children.

**10. Interceptive Orthodontics**

- a. Concepts of occlusion and esthetics: Structure and function of all anatomic components of occlusion, mechanics of articulations, recording of masticatory function, diagnosis of Occlusal dysfunction, relationship of TMJ anatomy and pathology and related neuromuscular physiology.
- b. A comprehensive review of the local and systemic factors in the causation of malocclusion.
- c. Recognition and management of normal and abnormal developmental occlusions in primary, mixed and permanent dentitions in children (Occlusal Guidance).
- d. Biology of tooth movement: A comprehensive review of the principles of teeth movement. Review of contemporary literature. Histopathology of bone and periodontal ligament, Molecular and ultra-cellular consideration in tooth movement.
- e. Myofunctional appliances: Basic principles, contemporary appliances: Design & Fabrication
- f. Removable appliances: Basic principles, contemporary appliances: Design & Fabrication
- g. Case selection & diagnosis in interceptive Orthodontics (Cephalometrics, Image processing, Tracing, Radiation hygiene, Video imaging & advanced Cephalometric techniques).
- h. Space Management: Etiology, Diagnosis of space problem, analysis, Biomechanics, Planned extraction in interception orthodontics.

## **11. Oral Habits in Children**

Definition, Etiology & Classification. Clinical features of digit sucking, tongue thrusting, mouth breathing & various other secondary habits.

## **12. Dental care of Children**

Definition Etiology, Classification, Behavioral, Clinical features & Management of children with: Physically handicapping condition, mentally compromising conditions, medically compromising conditions, Genetic disorders. Oral manifestations of Systemic Conditions in Children

& their Management. Management of Minor Oral Surgical Procedures in Children. Dental Radiology as related to Pediatric Dentistry. Dental Emergencies in Children and their Management. Comprehensive Infant Oral Health care.

**13. Cariology**

Historical background. Definition, Etiology & Pathogenesis. Caries pattern in primary, childhood caries and extensive caries, Definition, aetiology, Pathogenesis, Clinical features, Complications & management. Role of diet and nutrition in Dental Caries. Dietary modifications & Diet counseling. Subjective & objective methods of Caries detection with emphasis on Caries Activity Tests, Caries prediction, Caries susceptibility & their clinical Applications.

**14. Pediatric Oral Medicine & Clinical Pathology**

Recognition & Management of developmental dental anomalies, teething disorders, stomatology conditions mucosal lesions, viral infections etc. Congenital Abnormalities in Children: Definition, Classification, Clinical feature & Management. Dental Materials used in Pediatric Dentistry.

**15. Preventive Dentistry**

Definition, Principles & scope. Types of prevention. Different preventive measures used in Pediatric Dentistry including fissure sealants and caries vaccine. Dental Health Education & School Dental Health Programmes. Dental health concepts, Effects of civilization and environment, Dental Health delivery system, Public Health measures related to children along with principles of Pediatrics Preventive Dentistry. **Fluorides:** Historical background, Systemic & Topical fluorides, Mechanism of action, Toxicity & Management, Defluoridation techniques.

**16. Practice Management**

Medicological aspects in Pediatric in Pediatric Dentistry with emphasis on informed concept. Counseling in pediatric Dentistry. Case History Recording, Outline of principles of examination, diagnosis & treatment planning. Setting up of Pedodontics & Preventive Dentistry Clinic.

**17. Epidemiology**

Concepts, Methods of recording & evaluation of various oral disease, various national & global trends of epidemiology of oral disease.

**18. Comprehensive cleft care management with** emphasis on counseling, feeding, and nasolalvile bone remodeling, speech rehabilitation.

**19. Biostatistics and Research Methodology**

Study of Biostatistics as applied to dentistry and research. Understanding and evaluating dental research, scientific method and the behavior of scientists, understanding to logic-analogy, models, authority, hypothesis and causation, Quacks, Cranks, Abuses of Logic, Measurement and Errors of measurement, presentation of results, Reliability, Sensitivity and specificity diagnosis test measurement, Research Strategies, Observation, Correlation, Experimentation and Experimental design. Logic of statistical interference balance judgments, judgment under uncertainty, clinical vs. scientific judgment, problem with clinical judgment, forming scientific judgments, the problem of contradictory evidence, citation analysis as a Means of literature evaluation, influencing judgment : Lower forms of Rhetorical life, Denigration, Terminal, Inexactitude.

**20. Current Trends and Recent Advancements in Paedodontics & Preventive Dentistry.**