

પ્રાથમિક કસોટીનો અભ્યાસક્રમ	
ભાગ-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	<u>ભારતીય રાજનીતિ અને ભારતનું બંધારણ:</u> (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

Syllabus of Preliminary Test Part-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 Dental Surgeon class, II (Employees State Insurance Scheme) (Advt No. 70/2018-19)

Marks – 200

Questions - 200

Medium - English

Part-2 (Subject Related)

1. General human anatomy including Embryology, Osteology and Histology

Introduction, Detailed anatomy and Osteology of Head & Neck, Gross Anatomy of Thorax, Abdomen, and Extremities, Embryology of Head, Neck with emphasis on development of face, jaws, tongue, palates, salivary glands, pharyngeal arches and pouches Lymphatic and blood vessel system. G.I. system, Par nasal air sinuses, Gross Anatomy of the brain.

2. General human physiology , Biochemistry, Nutrition and Diets theory

Introduction to Blood, Cardio vascular system, Respiration, Exertion, Digestion, Endocrines, Reproduction, Central nervous system, Special sense, Nutrition.

3. General Pharmacology

- General principles of pharmacology; dosage forms; prescription writing; pharmacokinetics (absorption, distribution, metabolism and excretion of drugs), mode of action of drugs, factors modifying drug response, adverse drug reactions; drug interactions, CNS drugs; General anesthetics, hypnotics, analgesic, psychotropic drugs, antiepileptic muscle relaxants, analeptics, local anesthetics, Autonomic drugs: sympathomimetic, antiadrenergic drugs, parasympathomimetics, parasympatholytics, histamine and antihistaminics., Cardiovascular drugs, Drugs acting on blood, Endocrines: Emphasis on treatment of diabetes and adrenal cortical steroids. Chemotherapy, Vitamins, Miscellaneous drugs.

- Dental pharmacology & Therapeutics: Anti-septics, astringents, obtundents, mummifying agents, bleaching agents, styptics, disclosing agents, dentifrices and mouth washes, Treatment of common oral condition.

4. General Medicine

Gastrointestinal Disorders, Diseases of Cardiovascular System, Renal Diseases, Nutritional and Metabolic Disorders.

5. General Surgery

Introduction to surgery, surgery especially related to Ora-dental surgery, Classification of diseases, Inflammation, Soft-tissue, hard tissue-Cause, varieties sequelae and treatment., Infections-Acute and Chronic Abscess, Carbuncle Sinus, Fistula, Ulceration, Gangrene, Cellulitis, Erysipelas, Septicaemia, Pyaemia, Toxaemia, Carcinoma Oils, Tuberculosis, Syphilis, Gonorrhoea, Actinomycosis, Anthrax, Tetanus, Wounds-Complications, Treatment, Repair Asepsis and Antiseptic measures and procedure with particular reference to the Oral cavity. Haemorrhage and its treatment Haemophilia, Syncope, Shock, Collapse, Head Injury-Introduction, Cysts and new growths-Their general consideration with special reference to those occurring in the Buccal Cavity, Diseases of the Lymphatic glands, especially of the neck, Outline of diseases of the mouth, lips, tongue, palate tonsils and salivary glands, Infections and diseases of the larynx, Tracheostomy, Nervous system-injury to Facial nerves, Paralysis trigeminal Neuralgia, Principles of surgical treatment, diathermy and radium treatment, Fracture-General principles of treatment, Diathermy and healing, Cleft lip and cleft palate, Thyroid and Parathyroid.

6. Oral Pathology and Microbiology

Development disturbances of dental, oral and para-oral structures, including hereditary disorders, Dental Caries, Pulpal and periapical pathology and their

sequelae, Environmental lesions of the oral and para-oral structures, Defence mechanism of oral tissues and healing following injuries, Diseases of periodontal ligament, gingivae and cementum, Effects of nutritional disturbances and normal disorders on the oral and paraoral structures, Infections: Diseases of oral mucosa, Bone disorders affecting jaws, Cysts of oral cavity, Pre-Cancerous lesions-etiology and pathology, Neoplasms of Oral cavity, Diseases of salivary and lymph glands, Diseases of temporo-Mandibular joint, Diseases of nerves, skin, blood and their implications to oral tissues, Effects of radiation on ;oral and para-oral tissues, Oral Microbiology.

7. Orthodontics

Definition, aims, objects and scope of Orthodontics, Growth and development of Jaws, teeth, face and skull and establishment of normal occlusion, Genetics as applied to Orthodontics, Normal occlusion and its characteristics. Factors responsible for establishment and maintenance of normal occlusion, Malocclusion-type & Different classification, Aetiology of malocclusion, Histology taking and examination of patient and case analysis and differential diagnosis including cepha-lometrics and treatment planning. Preventive and Interceptive treatment of malocclusion, Extraction in Orthodontics, Appliances used in Orthodontic treatment-Adequate knowledge of removable appliances, Mechanical appliances and functional appliances and elementary knowledge of fixed appliances, Tissue changes incident to Orthodontic treatment, Retention after treatment and replace, Materials used in Orthodontia, Habit breaking appliances.

8. Periodontics

Introduction:- Scope and applicability of the subject, Historical background of Periodontology, Maintenance of Health- Role and scope of Oral Physiotherapy measures, patient education-programme and periodic check, Classification of gingival and periodontal disturbances, Gingival

enlargement, Infective muco-gingival conditions-specific and non-specific, Degenerative conditions-Gingivitis and Periodontitis, Atrophic conditions affecting gingival and periodontal tissues, Local and systemic factors in the causation of gingival and periodontal lesions, Periodontitis and sequelae, Malocclusion, Mal-alignment and traumatic occlusion Bruxism and Temporomandibular joint disturbances. Occlusal equilibration, Diagnosis and diagnostic aids including roentgenography and its uses limitations, Prognosis, Morphological defects of the muco-gingival structure influencing periodontium and their treatment, Treatment of all gingival and periodontal disturbances-treatment planning phases and rationale. Different available therapeutic procedures. Healing Mechanism, Role of Nutrition in aetiology and treatment, Drugs in Periodontics, Instrumentation, Splints, Preventive periodontics, concept of focal infection, Materials used in periodontia.

9. Prosthetics and Crown and Bridge

- **Complete Dentures** : Introduction & scope, Applied anatomy, Examination, diagnosis treatment planning and desirability prognosis, Principles of retentions & stability, Principles and techniques of impression making, Preparation of casts, trays and temporary denture-bases, Jaw-relations and methods of registration, Artificial teeth their selection and arrangements and esthetics, Articulators and face bows, Occlusion and articulation in complete denture, Trying in of complete dentures, Processing and finishing of dentures, Correction of occlusal discrepancies, Delivery and adjustments of complete dentures, Sequelae of ill-fitting dentures, Repair, rebasing and relining, Immediate dentures, Implant dentures.
- **Removable Partial Dentures:** Introduction and scope, Classification, Examination, diagnosis and treatment planning, Components of removable partial dentures & their function, Surveyors, Mouth preparations for partial dentures, Impression procedures, Designs of removable partial dentures & its associated problems, Fabrication of cast metal frame work, Jaw relation

record, Selection and arrangement of teeth, Acrylic partial denture, trying in of partial dentures, Processing, finishing, delivery and maintenance of partial dentures, Immediate partial dentures.

- **Elements of Crown and Bridge Prosthesis:** Introduction Definitions, Indication and contra-indications, Examination, diagnosis & treatment planning, Selection and choice of abutment teeth, Principles of tooth reduction, Indication, contraindications, and procedures of preparation of abutment teeth for receiving various types of retainers, Temporary protections of a prepared tooth, Gingival retractions and Impression procedures, Construction of days and working models, direct and indirect technique, Technique of fabrication of retainers, Selection & Fabrication of pontics, Connectors stress-breakers and assembly of fixed bridges, Finishing commenting and maintenance of crowns and bridges.

10. Oral Medicine and Radiology

Scope and importance of the Subject, Methods of diagnosis including special investigations, Acute infections of oral and para-oral structures. Blood dyscrasias and their management. Management of cardiac patient in dentistry oral sepsis and its effect on general system, Facial pain, Cysts and tumors of the oral cavity, Oral Manifestations of dermatological and other systemic disturbance, Immune concepts of oral lesions , Techniques of intra-oral and extra-oral Radiography and normal Anatomical landmarks, Radiological interpretation of abnormal dental and jaw conditions.

11. Current Trends and Recent Advancements in the field of Dental surgery.