

જીયાનું નામ: (૧) લેકચરર સિલેક્શન સ્કેલ(પ્રોફેસર),વર્ગ-૧ (જાહેરાત ક્રમાંક.૧૧/૧૭-૧૮) અને
(૨) લેકચરર સિનિયર સ્કેલ (રીડર), વર્ગ-૧ (જાહેરાત ક્રમાંક.૨૭/૧૭-૧૮)

વિષય: “શાલક્ય તંત્ર”

કુલ પ્રશ્નો:૩૦૦	પ્રાથમિક કસોટીનો અભ્યાસક્રમ	કુલ ગુણ -૩૦૦
	Part-I	
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	

Syllabus of Preliminary Test for the recruitment of Lecturer Selection Scale (Professor), Class-I (advt.No.11/17-18) and Lecturer Senior Scale (Reader), Class-I, (Ayurveda) (advt.No.27/17-18)

(Shalakyta Tantra)

Total Questions:300 Syllabus of Preliminary Test Total Marks-300

Part-I

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> (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

Part-II Syllabus Of Concerned Subject

(Shalakya Tantra)

Medium: English

Questions:200

Marks : 200

1. Shalakya Tantra Nirukati, Parichaya, Itihas and Pradhanyam. Comparative and critical study of rogas explained by various granthas. Syntactical derivation, definition and importance of the word “Shalakya”.
2. Available literature of Shalakya Tantra (Netra Rog vigyana, Shiro-Nasa- Karna - Kantha Roga Vigyan Maulik Siddhanta and Vangmaya and Danta and Mukha Roga) in Brihatrayi, Laghutrayi, Yogaratnakar, Chakradutta, Bhel Samhita, Harita samhita and Kashyap samhita.
3. **Netra Rog Vangmaya**
 - Critical analysis of the available literature of netra roga vigyana in the classics e.g. Puyalasa and Vatahata Vartma in Sushruta samhita and Vagabhat samhita.
 - Unique/ specific contribution of different classics, Acharyas and commentators in the development of Netra roga vigyana.
 - Update chronological development of Netra roga vigyana right from Vedic period and Ophthalmology.
 - Analytical determination of subjects related to eye disorders in ancient and modern literatures. Netra Sharir and related Marmas.
 - Applied anatomy and physiology of eye, its adnexa and visual pathway.

4. Ayurvediya Netra Rog Vigyan

- Enumeration and classification of Netra Rogas.
- Descriptive knowledge of *etiology, pathogenesis, prodromal symptoms, clinical features, complications and prognosis* of pakshma -vartma- sandhi- - shukla- Krishna- dristi & sarvagata rogas along with exogenous eye diseases available in Ayurvedic classics. Medical and surgical Management of the above diseases with special skill development in Ashtavidha shastra & Trividha Anushastra chikitsa related to Netra roga.
- Netra kriya kalpa procedures like seka, ashchyotana, vidalaka, pindi, tarpan, putapaka & anjana and their practical application and analysis based on ocular pharmacology. Standard operative procedures for Kriyakalpas including Aushada kalpanas.
- Study of nayanabhighata and its management and prevention.
- Knowledge of preventive and community ophthalmology along with national programme for control of blindness and role of Ayurveda.
- Ayurvedic Concept of Congenital, developmental and neoplastic diseases of netra.
- Study of Dosha, Dhatu, Mala and Srotas in context to Netra chikitsa.
- Updated knowledge of Agropaharaniya in Netra chikitsaincorporating sterilization, Sangyahaarana (Anaesthesia).
- Vrana SiddhantaTrividha Shopha, ShuddhaAshuddha Vrana, Vrana Srava, Vrana Bandha, Vranitopasana in context to Netra chikitsa.
- Swasthavritta related to Netra. Chaturvidha Chikitsa Siddhanta and Raktamokshana in Netra chikitsa. Role of Panchkarma in Netra chikitsa.
- Applied knowledge of various Kriyakalpas and other therapeutic procedures related to Netra chikitsa.

- Netra Chikitsa Upayogi Vishishta Yoganam, Guna, Karma prayog gyanam of most common classical Yogas.

5. Adhunik Netra Rog Vigyan

- Knowledge and application of current diagnostic techniques and equipments and therapeutics in Ophthalmology.
- Detailed study of refractive errors along with defects of accommodation and their management.
- Detailed knowledge of classification, etiology, pathogenesis, signs and symptoms, differential diagnosis, prognosis and complications of diseases of eye orbit, lacrimal apparatus, lids, conjunctiva, cornea, sclera, uveal tract, lens, vitreous, retina, optic nerve and visual pathway with comprehensive knowledge of their medical and surgical management.
- Ocular trauma its emergencies, Ocular motility disorders, Neurological and systemic disorders affecting the eyes and their medical and surgical management.

6. Recent Advances in Netra Chikitsa & Ophthalmology.

- Update advances in the development of Ayurvedic drug formulations, therapeutic procedures and treatments of Netra roga.
- Advanced technologies & techniques in the diagnosis of eye diseases, in the medical & surgical management of Netra roga and in Ophthalmology.
- Detailed study of recent research works on chakshushya dravyas.
- Comparative and critical study of modern advances in surgical techniques over the surgical methods described in Ayurvedic classics.

7. Shiro- Nasa- Karna - Kantha Roga Vigyan Maulik Siddhanta and Vangmaya

- Sequential development and history of science of ear, nose, throat and Shiras disorders. Establishment of “Superiority of shiras’ among the organs. Determination and importance of the verse ‘**Nasa Hi Shiraso Dvaram**’. Syntactical derivation and the synonyms of the words Karna, Nasa, Kantha, Shiras etc.
- Descriptive knowledge of the anatomy and Physiology of ear, nose, throat and Shiras as per ancient and modern science.
- Examination of the ear, nose, kantha and shira as per Ayurveda and modern science. Common etiology of ear, nose, throat and shiras disorders, their pathogenesis, prodromal symptoms, classification, clinical features and general treatment.
- Importance of shaman and sodhana therapy in ear, nose, throat and shira disorders with general introduction to local therapeutic procedures of ear nose and throat and shira e.g. kaval, gandusha etc.
- Detailed applied knowledge of recent advanced diagnostic and therapeutic techniques and equipments (Yantra and Shastra) used for ENT and Shira disorders and knowledge of essential modern drugs, anaesthetic agents of diagnostic and surgical importance.
- General knowledge of ‘vrana bandhana’ (bandaging of wounds) and applied bandage in ear etc.
- Update chronological development of ENT from Vedic period.

8. Ayurvediya Shiro – Nasa - Karna - Kantha Roga Vigyan

- Karna-Nasa –Kantha –and Shira rogas samkhya samprapti, Nasa rogas samkhya samprapti, Kantha rogas samkhyasamprapti, Shira and Kapala (cranial vault) disorders samkhya samprapti.
- Descriptive knowledge of etiology, pathogenesis, prodromal symptoms, classification, clinical features, Upasaya-Anupsaya(prognostic measures) sadhyasadhyatwa and, complications of ear disorders, nasal diseases, kantha diseases, Shira and kapala diseases described in the classics of Ayurved.

- Role of Panchkarma in ShiroNasaKarnaAvum Kantha Chikitsa.

9. Adhunika Shiro- Nasa- Karna - Kantha Roga vigyan

- Descriptive knowledge of instruments and recent equipments available for diagnosis of ear – nose – throat – head disorders.
- Descriptive knowledge of etiology, pathogenesis, clinical features, differential diagnosis, classification along with complications of different ear – nose- throat and head disorders. Detail knowledge of the treatment (including conservative and surgical) of the above mentioned disorders.
- Imaging in ENT and Head disorders, detailed knowledge of LASERS, radiotherapy, chemotherapy and other recently advanced treatment modalities like speech therapy, cochlear implant, rehabilitation of the deaf and mute, etc. related to ear – nose – throat – and head disorders.
- Management of emergencies in ENT and head disorders.

10. Shiro- Nasa- Karna -Kantha Roga Vigyan Shalya Chikitsa

- Knowledge of agropaaharniya and d trividha karma i.e pre operative, operative and post operative measures, eight types of surgical procedures (Astavidha Sasthra Karma) and post operative care of the patient with respect to ENT disorders (Vranitopasaniya), updated surgical procedures in ear – like constructive surgery of external and middle ear, excision of pre auricular sinus, Tympanoplasty, Mastoidectomy, Stapedectomy, Endolymphatic sca surgery, Facial nerve decompression surgery, Cochlear implant, etc with their complications and their management.
- Nose – Septo-rhinoplasty, SMR, Functional Endoscopic sinus surgery, Caldwell luc surgery, Antral puncture, Antral lavage, Turbinectomy, Polypectomy, Various surgical procedures done

for malignancy of Nose and paranasal sinuses, Young's surgery, etc.

- Throat - Adenoidectomy, Tonsillectomy, Surgical procedures for pharyngeal abscesses, cauterization of pharyngeal wall granulations, tracheostomy, vocal cord surgery, surgery of vocal cord paralysis, management of laryngeal trauma, laryngectomy, etc.
- General introduction of four treatment procedures like Bhesaj–Kshar – Agni– Shashtra and Raktavsechana with their applied aspects in ear nose throat and shiro disorders . Chaturvidha upakrama in raktasandhan vidhi related to ear nose throat and head disorders. Haemostatic management in ENT. Removal of foreign bodies in the ear nose throat and shira as per Ayurveda and modern science.
- Karna-Sandhan Nasa-Sandhan, fundamental and applied aspects of Ayurveda.

11. Danta evum Mukha Roga – Ayurveda Siddhanta and Vangmaya

- History and development of the science of oral and dental diseases. Etymology and synonyms of the word 'Mukha' and 'Danta'. Ancient and recent knowledge of anatomy of oral cavity and teeth along with the knowledge of salivary glands.
- Detailed study of Oral cavity and gustatory physiology.
- Oral hygiene, Social aspect of oral hygiene, preventive measures in oral cavity diseases, general etiology, pathogenesis, prodromal symptoms, clinical features and general management of oral cavity diseases.
- Agropaharaniya, knowledge of purva, pradhan and pashchat karma. Study of Ashta Vidha Shashtra Karmas in relation to Danta and Mukha Roga.

- Applied and detailed study of therapeutic measures for oral and dental disorders, like Kavala, Gandusha, Dhupana, Nasya, Murdhtaila Mukhalepa and Pratisarana and their definition, types, indications, contraindications, procedure, features of proper, excess, deficient application and their management.
- Importance of shodhan and shaman treatment in oral and dental diseases and knowledge of common recipes useful in oral and dental diseases.
- General introduction of four types of treatment (Bheshja, Shastra, Kshara, Agni). Detail description of Anushastra karma.
- Analytical determination of related subjects of danta-mukha disorders available in ancient and modern commentaries of different Samhita.

12. Ayurvediya Danta evum Mukha Rog Vijnana

- Examination of oral cavity, periodontia and teeth. Teeth eruption and its systemic disturbances in a child, Classification, Number of teeth along with detail knowledge of abnormal tooth eruption. Dental disorders in paediatric age group, their prevention and treatment.
- Detailed study of etiology, pathogenesis, prodromal - symptoms, clinical features, complications, prognosis and treatment of Danta gata rogas, Danta-Mula Gata Roga (**gum- periodontia**), Oshtha (lip), Jihva (tongue) and Talu (palate) Rogas, Sarvasara Mukharogas (Generalized oral diseases) and their detailed in the classics of Ayurved.
- Knowledge of Dantabhighata (dental trauma) and Mukhabhighata (oral injury) along with diagnostic and referral skills.

13. Adhunik Danta evum Mukha Rog Vijnana

- Detail study of etiology, pathogenesis, clinical features, classification and complication of various oral and dental diseases available in literature of Modern sciences.
- Detail study of their recent available medical therapeutics, diagnostic technology in the diagnosis of oral, periodontal and dental disease, essential modern drugs, anaesthetic agents of diagnostic and surgical importance.
- Knowledge of applied and available surgical procedures indicated in various dental diseases like tooth extraction, RCT, Dental filling, filling materials, tooth fixation and tooth implants etc.
- Systemic Effects of oral, periodontal and dental diseases.

14. Danta evum Mukha Rog Vijnana & Dentistry

- Jaalandhara Bandha, its importance and application in Tooth extraction without anaesthesia.
- Vishishta Upadanta parikalpana (Dental Material and Prosthesis).
- Recent Research studies and advanced clinical applications of Kriya Kalpas in Danta and Mukha Rogas.
- Detailed study of recent available medical therapeutics and Research studies in Dental and oral cavity disorders. Advanced diagnostic technology in Dentistry and oral pathology.
- Benign and malignant tumors of Oral Cavity, their management and role of Ayurveda in Such conditions.

15. Research Methodology: Brief historical background of research in Ayurved and contemporary medical science. Research in Ayurved - Scope, need, importance, utility. Types of Research, Research design: observational and interventional, descriptive and analytical, preclinical and clinical, qualitative and quantitative. Research process, Research tools. The concept and importance of ethics in

research, Ethical aspects related to human and animal experimentation. Information about Institutional Ethics Committee (IEC) and Animal Ethics Committee (AEC) and their functions. Classical Methods of Research. Comparison between methods of research in Ayurveda (Pratigya, Hetu, Udaharana, Upanaya, Nigaman) and contemporary methods in health sciences. Concept of Evidence Based Medicine and Scientific Writing, Importance of IT in data mining and important research data portals concerned with Ayurved and contemporary medical science (DHARA, PubMed, Ayush Research Portal, Bioinformatics Center, Research Management Informatic System etc.), Medical-Statistics.

16. Current Trends and Recent Advancements in Ayurveda.