

RAJASTHAN PUBLIC SERVICE COMMISSION, AJMER

SYLLABUS FOR SCREENING TEST FOR THE POST OF LECTURER (SHALAKYA TANTRA) AYURVED AND INDIAN MEDICINE DEPARTMENT

PART-A

General Knowledge of Rajasthan

Culture & Heritage of Rajasthan:-

1. Dietary Practices of Rajasthan:
 - 1.1 Indigenous food- Cereal and millets, fruits and vegetables, food of various regions.
 - 1.2 Seasonal dietary practices, festivals and their Ayurvedic rationale.
 - 1.3 Tradition of fasting and *Upvas*.
2. Crops of Rajasthan:
 - 2.1 Evidence of Crop production in Pre-Historic sites of Rajasthan.
 - 2.2 Evidence of Crop production in Ancient and Medieval Rajasthan.
3. Minerals of Rajasthan- Evidence of knowledge of minerals in Ancient and Medieval Rajasthan.
4. Medicinal Herbs of Rajasthan.
5. Society of Rajasthan:
 - 5.1 Traditions, dress and ornaments, fairs & festivals.
 - 5.2 Folk and Tribal Society: Fairs and festival, social customs, social life and beliefs.
6. Making of Modern Rajasthan:
 - 6.1 Political and social awakening in 19th century.
 - 6.2 Peasant movements, tribal movements and *Prajamandal* movements in 20th century.
Integration of Rajasthan.

Geography of Rajasthan:-

Broad Physical Features: Mountains, Plateaus, Plains and Deserts; Major Rivers and Lakes; Climatic Characteristics; Major Soil types and their distribution; Vegetation types and their distribution; Agricultural types; Livestock; Demographic Characteristics.

Total Questions 30

PART-B

NETRA ROGA VIGYAN

I. Introduction

- Shalakya tantra nirukti, Parichayam, Ithihasam.
- Netra rachana shariram (Mandala, Patala, Sandhi, Drushti Vichara) and Netra Kriya Sharira along with modern anatomy of Eye.
- Eye examination and knowledge of basic instruments/equipments required for examination of Eye.
- Netrarognanam – Samanya Hetu (Nija and agantuja), Purvarupa, Samprapti, Rupa and Chikitsa.
- Classification of Netraroaga and its importance.

II. Netra Samanya and Vishishta Chikitsa - Kriya Kalpa

- Netra and Chakshu swasthya hitkara Dinacharya, Ritucharya, Aahara evum Vihara.
- Kriya-kalpa-Seka, Aschyotana, Pindi, Vidalaka, Tarpana, Putapaka, Anjana and importance of Panchkarma in Netra Chikitsa.
- Basic fundamentals of Netra Shastra Chikitsa e.g. Purva – Pradhana - Paschat karma, Ama-Pachyaman-Pakva Vrana shotha, Vranitopasana, Pranashtashalya, & Vranbandhana. Methods and concepts of sterilization, asepsis and antisepsis as per ancient and modern point of view.
- Basic applied knowledge of Ashtavidha shastrakarma, agni, kshara, raktamokshana in Nerta rogas.
- Essential diagnostic and therapeutic modern pharmacological agents required in Netra Chikitsa.

III. Sandhigata Roga (Diseases of junctional areas of eye)

- Number of sandhigata rogas, knowledge of etiology, pathology, clinical features and management of Pooyalasa, Upnaha, Srava Rogas, Parvani, Alaji and krimigranthi Rogas.
- Study of Acute and Chronic Dacryocystitis, Epiphora, Blepharitis including their aetiology, pathology, signs & symptoms, differential diagnosis and medical & surgical management.

IV. Vartmagata Roga (Diseases of Lids)

- Number of vartmagata rogas, knowledge of etiology, pathology, clinical features and management of Utsangini, Kumbika, Pothaki, Vartmsarkra, Arshovartma, Suskarsa, Anjananamika, Vahalvartma, Vartmabandha, Klistavartma, kardmavartma, Shyavvatrma, Klinna vartma, Aprklinna vartma, Vatahata vartma, Arbuda, Nimesh, Sonitarsa, Lagana, Visvartma, Pakshma kopa, Sikta vartma, Krichhronmeelana and Kukunaka diseases of Vartma.
- Knowledge of Hordeolum, Ptosis, Trachoma, Trichiasis, Entropion, Ectropion including their Etiology, signs and symptoms differential diagnosis and medical & surgical management.

V. Shuklagata Roga (Diseases of sclera and conjunctiva)

- Number of Shuklagata rogas, knowledge of etiology, pathology, clinical features and management of Arma, Shuktika, Arjuna, Pishtaka, Sira jala, Sira pidika and Balasgrathita.
- Study of Pterygium, Scleritis, Episcleritis, Sub-Conjunctival Hemorrhage including their Etiology, signs and symptoms, differential diagnosis and medical & surgical management.

VI. Krishnagata Roga (Diseases of cornea and uvea)

- Number of krishnagata rogas, detailed knowledge of Etiology, Pathology, Clinical features, differential diagnosis, complications and management of Savrana/kshata Shukla (Shukra), Avrana shukra (Shukla), Ajakajata, Akshipakatyaya and Sira shukla.
- Knowledge of Corneal ulcer, Corneal Opacity, Uveitis, Acute Iridocyclitis, Staphyloma, their aetiology, pathology, symptoms, differential diagnosis, complications and management.

VII. Sarvagata Roga (Diseases effecting all parts of eye)

- a) Number of Sarvagata rogas, detailed knowledge of etiology, pathology, clinical features, complications, differential diagnosis and Management of Abhishyanda, Adhimantha, Hatadhimantha, Sashopha & Ashophakshipaka, Shushkakshipaka, Vata paryaya, Anyato vata, Amloshit, Sirotpata, Siraharsha and Pilla roga.
- b) Knowledge of Conjunctivitis, Glaucoma, Dry Eye Syndrome including their etiology, pathology, clinical features, differential diagnosis, complications and their management.

VIII. Drishtigata Roga (vision disorders)

- a) Number of Drishtigata rogas knowledge of - etiology, pathology, clinical features, differential diagnosis and management of Timira, Kacha and Linga nasha. Abhighataja lingnasha, sanimittaja & Annimittaja Lingnasha, Kaphavidagdha drishti, Pittavidagdha drishti, Hriswajadya, Nakulandhya, Dhumadarshi, Gambhirika, Naktandhya, Ushna vidagdha drishti, Nayanabhighata.
- b) Knowledge of Refractive errors, Cataract including their etiology, pathology, clinical features, differential diagnosis, complications and their management.
- c) Study of Eale's disease, Hypertensive & Diabetic Retinopathies, Age related Macular degeneration, Strabismus, Retinitis pigmentosa, Night blindness, Amblyopia, Central serous retinopathy, Optic Neuritis and Optic atrophy

IX. Miscellaneous Disorders

- a) Xerophthalmia and other malnutritional eye disorders.
- b) Knowledge of ocular trauma and their management.
- c) Introduction to Eye bank, Eye donation, Corneal Transplantation.
- d) Preventive Ophthalmology and Community Ophthalmology.

X. Congenital and Neurological Disorders

- a) Concept of congenital, developmental disorders of eye and prevention and management through Ayurveda and modern science.
- b) Neurological and systemic disorders affecting Eyes and their Modern and Ayurvedic Management.

XI. Miscellaneous Topics

- a) Application of various aids and techniques in the examination of eye viz Tonometry, Direct Ophthalmoscopy, Perimetry, Refraction and Slit Lamp examination with their interpretation.
- b) Fundamentals of optics and refraction.
- c) Applied aspects of Aetio-Pathogenesis, clinical features, prognostic and therapeutic principles in Netra Roga Chikitsa along with Pathya-Apathya and their contemporary knowledge.
- d) Common ocular emergencies and their management.
- e) Applied aspects of Yantra and Shastra in Netra Chikitsa along with modern ophthalmic surgical instruments and equipments.
- f) Knowledge of rules, regulations and medico-legal aspects of ophthalmic practice including eye donation, eye banking and corneal grafting. Knowledge of handling of biomedical waste.

SHIRA - KARNA- NASA- MUKHA ROGAS

I. Samanya Chikitsa

- a) Study of therapeutic procedures like Sveda, Kavala, Gandusa, Dhuma, Murdhni Taila, Nasya, Pratisarana, Karna Purana, karna prakshalana, nasa prakshalana Mukha Lepa.
- b) Ashtavidha shastrakarma and anushastrakarma used in the treatment of Shira, Karna, Nasa evam Mukha Rogas.

II Shiro Roga

- a) Importance and Superiority of Shira.
- b) Number, general etiology, pathology and cardinal features of shiro rogas and kapalgata rogas along with their common line of management/treatment.
- c) Detailed study of Headache and Migraine, its differential diagnosis and treatment.

III Karna Roga

- a) Detailed study of Rachana and Kriyasharir of Karna (Ear) & Shravanendriya as per Ayurvedic and modern view, Examination of Ear along with instruments/equipments

required in Ear examination.

- b) Study of etiology, pathology, classification, clinical features and management of diseases of Karna – karna shool, karna nada. Badhirya, karna shweda, karnastrava, karna kandu, Karna varcha, krimikaran, karna pratinaha, Karnavidradhi, karnapaka, pootikarna, karnavidradhi, karnarsha, karnarbuda, Karnasopha.
- c) Karna sandhana.
- d) Study of Otagia, ASOM, CSOM, Deafness, Wax, Otomycosis, Otosclerosis, Tinnitus, Vertigo including their etiology, pathology, clinical features, differential diagnosis, complications and medical & surgical management.
- e) Foreign body in ear and Noise pollution.

IV Nasa Roga

- a) Detailed study of Rachana and Kriyasharir of Nasa (Nose and paranasal sinuses) & Ghranendriya as per Ayurvedic and modern view, Examination of Nose along with instruments/equipments required in Nose examination.
- b) Study of Pratishtya, Dushta pratishtya, Apeenasa, Putinasya, Nasapaka, Nasagata raktapitta, Puyarakta, Kshavathu, Bhraanshathu, Dipta, Nasanaha, Nasa strava, Nasasotha, Nasaarsha and Nasaarbudha.
- c) Nasa Sandhana.
- d) Study of Rhinitis & Sinusitis, Epistaxis, Nasal Polyp, DNS, Foreign body including their Etiology, pathology, clinical features differential diagnosis and medical & surgical management.
- e) Knowledge of Nasal trauma, Tumours of nose and Para nasal sinuses.

V Mukha Roga (Diseases of Oral Cavity)

- a) Detailed study of Rachana and Kriyasharir of Mukha Rogaadhithana– oshtha, dantamoola, danta, jivha, talu, gal, sarvasara (Oral cavity) as per Ayurvedic and modern view along with their basic examination including instruments/equipments required for the examination.
- b) Mukha and Danta Swasthya as per ancient and modern concepts including prevention of malignancy of oral cavity.
- c) Number and general aetiology, pathology, cardinal features of Mukha rogas along with their common line of management/treatment.

VI Oshtha Roga (Diseases of Lips)

- a) Study of Etiology pathology, classification, clinical features and management of Vataj, Pittaj, Kaphaj, Raktaj, Sannipataja, mansaj, Medhj, Abhigataja Oshtha rogas, khandoshtha, Gandalaji, Jalarbuda and Kshataja Oshthaparakopa
- b) Knowledge of cleft lip.

VII Dant Mula Gata Roga (Diseases of Periodontia)

- a) Study of Etiology, pathology, classification, clinical features and management of - Shitada, dantapupputaka, Dantaveshta, Saushira, Mahasaushira, Upakush, Paridara, Vardhana, Adhimansa, Danta Vaidarbha, Danta Nadi and Danta Vidradhi.
- b) Detailed study of Etiology, pathology, classification, clinical features and management of Gingivitis, Apical abscess, Periodontitis (Pyorrhoea).

VIII Danta Roga (Dental Diseases)

- a) Study of Etiology, pathology, classification, clinical features and management of Daalan, Krimidanta, Danta harsha, Bhanjanak, Danta sharkra, Kapalika, Shyava Danta, Hanumoksha, karala, Dantabhedha and Danta chaal.
- b) Danta Utpatana with Jalandhar bandha
- c) Knowledge of Dental Caries, Dental Tartar & Tooth extraction.

IX Jihwa Gata Roga (Diseases of Tongue)

- a) Study of Etiology, pathology, classification, clinical features and management of - jivha kantaka (vataja, pittaja and kaphaja), Alasa, Upajihva.
- b) Knowledge of Glossitis Tongue Tie, Ranula, Benign and Malignant Tumors of tongue.

XI Talu Roga (Diseases of Palate)

- a) Study of Etiology, pathology, classification, clinical features and management of - Gala shundika, Tundikeri, Adhrusha, Kacchapa, Talushosha, Talvarbuda, Mamsasanghata, Talupputa and Talupaka.
- b) Knowledge of Cleft palate, palatitis, uvulitis and tumours of the palate.

XI Kantha and Gala gata Roga (Diseases of Pharynx & Larynx)

- a) Study of Etiology, pathology, classification, clinical features and management of Rohini, Kantha shaluka, Adhijihwa, Valaya, balasa, Ekavrinda, Vrinda, Shataghni, Gilayu, Galavidradhi, Galaugha, Swaraghna, Mamstana, Vidari, Galaganda, Kantharbuda, Kanthavidradhi, Galarbuda and Galashotha.
- b) Knowledge of foreign body in the throat, Carcinoma of Larynx & Pharynx, Dysphagia Diphtheria & diseases of salivary glands.

XII Sarvasara Mukha Roga (Generalised mucosal affections of the oral cavity)

- a) Study of Etiology, pathology, classification, clinical features and management of Sarvasar mukhapaka, urdhvaguda, putivaktrata and mukharbuda.
- b) Detailed Knowledge of Stomatitis.

XIII Miscellaneous

National Programme for Prevention and Control of Deafness.

XIV Miscellaneous Topics

Mukha and Danta Chikitsopayogi Aushadha Kalpana Parijnanam e.g. Dashana Samskara Manjana, Shwetamanjana, Vajradanta Manjana, Khadiradi Vati, Irimedadi Taila, Peetaka Churna, Kalaka Churna, Nimbadi Churna and Bhadramustadi Vati.

Total Questions 120

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Pattern of Question Paper:

1. Objective Type Paper
2. Maximum Marks : 300
3. Number of Questions : 150
4. Duration of Paper : 2:30 Hours
5. All Questions carry equal marks
6. Medium of Screening Test: Bilingual in English & Hindi
7. There will be Negative Marking
(For every wrong answer, one-third of marks prescribed for that particular question will be deducted).