

DETAILED SYLLABUS FOR THE POST OF ASSISTANT
PROFESSOR IN SHALAKYA TANTRA
AYURVEDA MEDICAL EDUCATION

(Cat. No. 114/2021)

Module 1 (9 marks)

- 1) History and chronological development of Shalakyia Tantra. (1 mark)
- 2) Establishment and importance of 'Shirasouttamangatwam', 'Nasa Hi shirsodwaram' and 'Sarvendriyanam Nayanam Pradhanam'. (1 marks)
- 3) Applied Anatomy and physiology with related marmas and disease classification as per **Ayurvedic** classics of Netra, Karna, Nasa and Mukha

(2 marks)

- 4) Critical analysis of nidana of Urdhwajatruvikaras (Netra, Karna, Nasa, Mukha and Sirorogas)

(3 marks)

- 5) Swasthvritta (**Brihatrayis**) and Pathyapathya (**Ashtangahridaya, Astangasamgraha, Susrutasamhita, Yogaratnakara**) related to Shalakyia Tantra

(2 marks)

Module II (12 marks)

- 1) Clinical methods of Eye, ENT and Oro- Dental examination with their various techniques and instruments (4 marks)
- 2) Application of various aids and techniques with their respective interpretation viz. Retinoscopy, Refraction, Tonometry, Slit lamp examination, Pachymetry, Corneal Topography, Direct and Indirect Ophthalmoscopy, Gonioscopy, Perimetry, A scan, B scan, FFA (Fundus Fluorescein Angiography), OCT (Optical Coherence Tomography), ICGA and Electrophysiological tests like VEP, ERG, EOG. (4 marks)

3) Applied aspects of Imaging in ENT and head disorders (2 marks)

4) Fundamentals of Acoustics and Audiology (2 marks)

Module III (13 marks)

1) Descriptive knowledge of etiology, pathogenesis, prodromal symptoms, clinical features, complications, differential diagnosis, prognosis and management of Sandhigata, Vartmagata, Pakshmagatarogas, diseases of eyelids and lacrimal apparatus along with their comparative analysis and management (3 marks)

2) Descriptive knowledge of etiology, pathogenesis, prodromal symptoms, clinical features, complications, differential diagnosis, prognosis and management of Shuklagata, Krishnagatarogas, disorders of conjunctiva, cornea, sclera with their comparative analysis and management. (3 marks)

3) Descriptive knowledge of etiology, pathogenesis, prodromal symptoms, clinical features, complications, differential diagnosis, prognosis and management of Drishtigata, Sarvagatarogas, disorders of uveal tract, lens, vitreous, retina, optic nerve, visual pathway, visual cortex and errors of refraction with their comparative analysis and management. (4 marks)

4) Ocular motility disorders and Neurological disorders affecting Eyes and their management as per Ayurvedic and modern science. (3 marks)

Module IV (12 marks)

1) Descriptive knowledge of etiology, pathogenesis, prodromal symptoms, clinical features, complications, differential diagnosis, prognosis and management of Karna rogas and diseases of ear with their comparative analysis and management. (4 marks)

2) Descriptive knowledge of etiology, pathogenesis, prodromal symptoms,

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clinical features, complications, differential diagnosis, prognosis and management of Nasarogas, diseases of the Nose and paranasal sinuses with their comparative analysis and management. (4 marks)

3) Karna sandhana, Nasasandhana, Oshthasandhana with their recent advances. (2 marks)

4) Speech therapy and rehabilitation of the deaf and mute. (2 marks)

Module V (8 marks)

1) Descriptive knowledge of etiology, pathogenesis, prodromal symptoms, clinical features, complications, differential diagnosis, prognosis and management of Shiro and kapalgatha rogas, various types of Headache with their comparative analysis and management. (4 marks)

2) Descriptive knowledge of etiology, pathogenesis, prodromal symptoms, clinical features, complications, differential diagnosis, prognosis and management of Kantharogas, diseases of Throat and Larynx with their comparative analysis and management (4 marks)

Module VI (8 marks)

1) Descriptive knowledge of etiology, pathogenesis, prodromal symptoms, clinical features, complications, differential diagnosis, prognosis and management of Oshthagata rogas, Dantamulagata rogas, Danta rogas, Jihwagatarogas, Talugatarogas and Sarvasara mukha rogas and Oro- Dental disorders with their comparative analysis and management (7 marks)

2) Jalandhar bandha and its importance and application in painless tooth extraction. (1 mark)

Module VII (10 marks)

1) Detailed study of Netra kriyakalpas and vishishta aushadhikalpas with their standard operative procedures and their critical analysis.

(AstangaHridaya, Ashtangasamgraha, Susruta Samhita and Sarnghadharasamhita) (5 marks)

2) Critical analysis of classical treatment procedures and vishishta aushadhikalpas with their standard operative procedures and their critical analysis in the context of Anya Urdhwajatrugata vikaras like Karnaprakshalana, Karna dhoopana, Karnapichu , Karnapoorana , Nasaprakshalan, Nasapichu, Kavala, Gandusha, Pratisarana, Dhoomapana, Shiroabhyanga, Shiropichu, Shirodhara, Shirobasti etc. **(AstangaHridaya, Ashtangasamgraha, Susruta Samhita and Sarnghadharasamhita)**

(5 marks)

Module VIII (10 marks)

1) Descriptive knowledge of Shastrakarmas (surgical procedures) and Chaturvidhachikitsa (Bheshaja, Shastra, Kshara and Agni) with respect to Urdwanganogas along with their pre operative (Agropaharaniya, sterilization) and Post operative care (4 marks)

2) Knowledge of Samanya Chikitsa and application of Panchakarma chikitsa in Urdhwajatrugata Vikaras. (3 marks)

3) Basic pharmacology of common drugs required in diagnostic and therapeutic procedures in Eye, ENT and Oro-Dentistry (3 marks)

Module IX (11 marks)

1) Descriptive knowledge of common ocular surgical procedures like DCT, DCR, Pterygium, Entropion, Ectropion, Chalazion surgery, Cataract surgery, Evisceration, Enucleation, surgical procedures of glaucoma etc., **Eye donation and Eye banking. (4 marks)**

2) Descriptive knowledge of common ENT surgical procedures like Tympanoplasty, Mastoidectomy, Septoplasty, Septorhinoplasty, antral puncture, Turbinectomy, Polypectomy, Tonsillectomy etc. (4 marks)

3) Management of emergencies and trauma and Foreign bodies in Eye, ENT, Head and Oro-Dental disorders as per modern and Ayurveda

(3 marks)

Module X (7 marks)

1) Knowledge of National programmes related to Eye, ENT and Oro-Dental diseases and role of Ayurveda in these Programmes. (National Programme for control of blindness, National Programme for deafness and tinnitus, National Programme for prevention of oral cancer). (2 marks)

2) Effects of environmental hazards, systemic diseases and life style disorders of Eye, ENT and Oro dental disorders and their Modern and Ayurvedic preventive and therapeutic measures. (3 marks)

3) Knowledge of rules, regulations and medico-legal aspects of Ophthalmic, ENT and Oro-dental practice. (2 marks)

NOTE: - It may be noted that apart from the topics detailed above, questions from other topics prescribed for the educational qualification of the post may also appear in the question paper. There is no undertaking that all the topics above may be covered in the question paper