

**Detailed Syllabus for the post of Hospital
Superintendent in Pharmaceutical
Corporation(IM) Kerala Limited**

(Total 100 Marks)

Part I

KAYACHIKITSA (25 Marks)(5 module)

1.Fundamental Concepts:

Knowledge about Tridhoshas,Sapthadhathu,Malam,Srothas, manas,trigunam,Prakruthi,Agni,Koshtam

2.RogaPariksha-nidanam and sarvaroganidanam,amam , Avarana, Srotodushti ,rogamargam, dosha dhathu vrudhikshayalakshanam,malavrudhikshayalakshanam,poorvaro opam,Roopam,uppasayam,samprapthi

3.Rogi Pariksha -darsana, sparsana, prashna, diagnostic methods of all diseases

4.Detailed chikitsa of all diseases including manasika rogas

5. Disease-Specific Studies: In-depth knowledge of systemic diseases related to Gastrointestinal- Hepatobiliary system, Respiratory, Cardiovascular, Nervous, Endocrine , Integuementary and Musculoskeletal system

Part II

Panchakarma 25 Marks(5 module)

1. Poorvakarmas -snehanam and swedanam Parihara Vishaya (dos and don'ts)

2. Pradhana karmas- vamanam,virechanam,vasthi,nasyam,rakthamoksham

3. Pashchatkarmam- dhoomapanam,peyadikramam,pathyapathyam

4. Management of complications of panchakarma
5. Application of physiotherapy and Treatment of the diseases in relation with panchakarma procedures

Part III

SALYATANTRA (25 Marks)

MODULE 1 - 5 MARKS

- i. Knowledge and importance of Surgical Audit and Research. Medico legal issues - Understanding the implications of acts of omission and commission in practice. Issues regarding Consumer Protection Act, medical profession, national health policy - Implications in a medico-legal case like accidents, assaults etc. Surgical ethics including Informed consent.
- ii. Clinical and diagnostic methods in Shalya Tantra - X-rays, U.S.G., Endoscopies (for diagnostic and treatment purposes), MRI, CAT scanning and other recent diagnostic tools.
- iii. Concept of Sandhana Karma - Plastic reconstructive and cosmetic surgery. Fundamentals of Sandhana Karma. Recent development on Sushruta's surgical principles and practices.
- iv. Kshara karma - different types of Kshara, Method of preparation, Standardization, pH value, Application, Complications and its management.
- v. Agnikarma - Thermo therapy - definition, importance, application in various diseases, mode of action. Various substances and Shalakas used for Agnikarma and their indications, contra-indications and complications. Modern thermal equipment - Diathermy, Laser therapy, Microwave, Ultracission technique, Cryo Technique and its uses.
- vi. Raktamokshana - Bloodletting Procedures - Types, Indications, contraindications and importance. Justification of usage of different types of Raktamokshana in various therapeutic applications. Sastrakritha - Siravyadhana, Prachana and Asastrakritha - Shringa, Jaluka, Alabu and Ghati. Jalauka - Nirukti, Paryaya, Bhedha, Sangrahana, Samrakshana, Jalaukavacharana Vidhi. Knowledge of Leeches - Morphology, Anatomy, Physiology, Bio-chemical effects of its various constituents present in its saliva.

MODULE 2 - 5 MARKS

- i. Thorough study of the Sushruta Samhita including other relevant portions of Brihatrayee and Laghutrayee.
- ii. Yogya Vidhi - Practical and Experimental training on different types of Surgical Models for Research in Surgery.
- iii. Anaesthesia - types, procedures, drugs, complications and management. Types of Shock and its management
- iv. Vrana - Wound management of Nija Vrana, Dushta Vrana and Nadi Vrana. Shasti upakramas, Pathya-apathya. Dagdha Vrana and their management. Sadyo

Vrana - Traumatic wounds – Nidana, Prakara, Lakshana, Upadrava and Chikitsa, Bites and stings and its management. Pranasta Shalya – Diagnosis and management. Prameha Pidaka – Diabetic carbuncle, Diabetic wound and its management. Kotha – Gangrene and Principles of Amputation. Vranasopha-Inflammation, Vidradhi – Abscesses and Pidika – Boils.

v. Granthi - Cyst and Arbuda – Benign and malignant Neoplasm. Diseases of Arteries and veins. Diseases of Breast, Benign and Malignant breast tumours.

MODULE 3 - 7 MARKS

i. Diagnosis and surgical measures of diseases of Gastrointestinal system - Oesophagus - Oesophageal varices, Dysphagia, Neoplasm, Strictures and Gastro-oesophageal reflux. Stomach and duodenum – Congenital anomalies, Injuries, Inflammation, Ulcer, Neoplasm, Pyloric stenosis, Acute dilatation, Hiatus hernia and foreign bodies. Shoola vyadhi - Nidana, Prakara, Lakshana, Upadrava and Chikitsa.

ii. Diagnosis and surgical measures of diseases of Hepatobiliary system -Liver – Abscess, Cyst - Hydatid cyst, Primary and Secondary malignant tumours, Portal Hypertension and Budd-Chiari Syndrome. Gall bladder and Bile duct - Congenital anomalies, Acute and Chronic Cholecystitis, Cholelithiasis, Neoplasm, Cholangitis, Stenosis, Choledocholithiasis, Choledochal cyst and Cholangiocarcinoma. Spleen – Splenomegaly and Splenic Injury. Pancreas - Congenital anomalies, Acute and Chronic pancreatitis, Calculi, Neoplasm and Cysts of pancreas.

iii. Diagnosis and surgical measures of diseases of Peritoneum, Omentum, Mesentery, Retroperitoneal Space – Peritonitis, Abscess, Neoplasm, Mesenteric cyst, Torsion of mesentery, Vascular thrombosis, Retroperitoneal cyst and Fibrosis. Abdominal mass - Diagnosis and Management.

iv. Diagnosis and surgical measures of Small intestine diseases- Congenital anomalies, Inflammation, Ulcer, Neoplasm, Stenosis, Injuries, Foreign bodies, Diverticuli, Peutz-jeghers syndrome, Crohn's disease, Enteric perforation and Intestinal fistula. Large intestine - Congenital anomalies, Inflammation, Ulcer, Neoplasm, Stenosis, Injuries, Foreign bodies, Diverticuli, Faecal fistula, Amoebiasis and Familial polyposis coli. Caecum and Vermiform appendix- Appendicitis, Appendicular abscess, Appendicular mass, Perforation, and other Neoplasm. Udara Roga - Aetiopathogenesis, Classification, Clinical features, Diagnosis, Complications and Management.

v. Diagnosis and Surgical management of diseases of Rectum and anal canal - Congenital Anomalies, Inflammation, Ulcer, Neoplasm, Stenosis, Prolapse, Haemorrhoids, Fistula-in-ano, Fissure-in-ano, Anorectal Abscess, Incontinence, Injuries, Foreign bodies and Pilonidal sinus. Aetiopathogenesis, Classification, Clinical features, Diagnosis, Complications and Management of Arshas, Parikartika, Bhagandara, Guda Vidradi, Gudabhramsa and Sanniruddaguda.

MODULE 4 - 4 MARKS

i. Diagnosis and Surgical management of diseases of Urinary tract - Aetiopathogenesis, Classification, Clinical features, Diagnosis, Complications and management of Ashmari – Urinary stone. Kidney and ureter – Clinical

presentation, Investigations and Management of Congenital anomalies, Trauma, Infection, Neoplasm, Hydronephrosis, Hydroureter and Haematuria. Urinary bladder – Congenital anomalies, Trauma, Infection, Neoplasm, Diverticulum, Vesico-vaginal fistula, Atony, Schistosomiasis, Urinary diversions, Retention of urine – Mutraghata and Mutrakruccha. Urethra – Clinical presentation, Investigations and Management of Congenital anomalies –Hypospadias, Epispadias, Posterior urethral valve, Trauma, Infection, and Neoplasm. Renal failure – Causes, Diagnosis, Investigations and Management.

ii. Prostate and seminal vesicles – Benign and malignant enlargement of prostate, Prostatitis, Prostatic abscess and Calculi. Penis – Clinical presentation, Investigations and Management of Congenital anomalies, Trauma, Infection, Niruddhaprakasha – Phimosis, Parivartika – Paraphimosis and Avapatika – Prepuceal ulcer. Peyronie’s disease and Neoplasm.

iii. Testis and scrotum – Clinical presentation, Investigations and Management of Congenital anomalies, Ectopic testis, Trauma, Infection, Neoplasm, Testicular torsion, Hydrocele, Varicocele, Spermatocele, Chylocele, Pyocele, Haematocele, Epididymal cyst and Fournier’s gangrene.

MODULE 5 – 4 MARKS

i. Asthi and Sandhi Sharira, Bhagna – Kantabhagna and Sandimukta – Etiology, classification, Management and Prognosis. Fractures of Upper limb, lower limb, ribs, pelvis, spine etc. Dislocation – Shoulder, Hip, Knee, ankle, etc. Pathological Fractures including Fragility fractures, Stress Fractures and Peri-prosthetic fractures. Fractures in Children – Etiology, Epidemiology, Diagnosis, management and complications. Complications of Fractures and Joint Injuries e.g. Myositis ossificans, Volkman’s ischemic contracture, Compartment syndrome, Crush Syndrome, DVT, Thromboembolism, Fat Embolism, etc

ii. Diagnosis and management – head and spine injury, thoracic trauma and abdominal trauma. Rehabilitation of trauma patient and Principles of Sukhchestaprachara. Sports medicine and sports related Shoulder injuries, Elbow injuries, Knee injuries, Ankle Injuries, Recurrent Dislocations etc. Diagnostic and Therapeutic Arthroscopy. Knowledge of Splints, Orthotics & Prosthetics., Principles of Reconstruction, Transplantation, Bone grafting, etc.

iii. Diseases pertaining to Muscles, Tendons, Ligaments, Fascia and Bursae. Diseases and Congenital anomalies of Spine e.g. Ankylosing spondylitis, Infective conditions, Tuberculosis, Spondylolisthesis, Inter-vertebral Disc Prolapse, Spondylosis, Scoliosis, Kyphosis, spina bifida, Hemivertebra, Block vertebra, Sacralisation, Lumbarisation, etc.

Part IV

Salakyatantra

Module 1 (5 Marks)

- Nidanapanchaka & samanya chikitsa of Shalakyarogas.
- Applied knowledge of Panchakarma chikitsa and other therapeutic procedures used in Netra rogas, shiro-nasa-karna and kantharogas and Mukha-Dantarogas.
- Common classical yogas and single drug therapy in Shalakya Tantra.
- Basic pharmacology of common drugs required in diagnostic and therapeutic procedures in Eye, ENT and Oro-Dentistry.

Medicolegal aspects in Ophthalmology, ENT and Oro- dentistry.
Module 2 (3 marks) Clinical methods of eye examination, examination of Nose and Para nasal sinuses, Ear examination and Oro-Dental examination and application of various diagnostic aids and techniques with their respective interpretation. Imaging in ENT and head disorders.
Module 3 (3 marks) 6. Descriptive knowledge of etiology, pathogenesis, prodromal symptoms, clinical features, complications, differential diagnosis, prognosis and management of Krishnagata, Drishtigata and Sarvagata rogas with their comparative knowledge of modern science. 7. Study of Nayanabhighata- Ayurveda & modern perspective with prevention and management.
Module 4 (3 marks) Descriptive knowledge of etiology, pathogenesis, prodromal symptoms, clinical features, complications, differential diagnosis, prognosis and management of Shiro and kapalgatha rogas, Nasarogas, Karnarogas and Kantharogas with their comparative knowledge of modern science.
Module 5 (2 marks) Descriptive knowledge of etiology, pathogenesis, prodromal symptoms, clinical features, complications, differential diagnosis, prognosis and management of Oshthagata, Dantamulagata, Danta, Jihwagata, Talugata and Sarvasaramukha rogas with their comparative knowledge of modern science.
Module 6 (2 marks) Descriptive knowledge of etiology, pathogenesis, prodromal symptoms, clinical features, complications, differential diagnosis, prognosis and management of Sandhigata, Vartmagata, Pakshmagata and Shuklagata rogas with their comparative knowledge of modern science.
Module 7 (2 marks) - Management of Emergencies in Eye, ENT, Head and Oro-Dental disorders. - Knowledge of preventive and community ophthalmology -WHO and National Programme for control of blindness, National Programme for deafness and tinnitus, National Programme for prevention of oral cancer and role of Ayurveda in these Programmes.
Module 8 (2 marks) Neurological and systemic disorders affecting Eye, ENT, Head and Oro-dental diseases and their Modern and Ayurvedic Management.
Module 9 (2 marks) - Descriptive knowledge of Ashtavidhashastrakarma and Chaturvidhachikitsa (Bheshaja, Shashtra, Kshara and Agni) and post-operative care with respect to Shalakya rogas. - Fundamental knowledge of Sterilization in Shalakya Tantra.
Module 10 (1 mark) Swasthavritta and Pathyapathya related to Shalakya tantra

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