CENTRAL COUNCIL OF INDIAN MEDICINE NEW DELHI SYLLABUS OF AYURVEDACHARYA (BAMS) 4th Year

INDEX

4TH PROFESSIONAL 4.1 KAYACHIKITSA 4.2 PANCHKARMA 4.3 SHALYA TANTRA 4.4 SHALAKYA TANTRA 4.5 RESEARCH METHODOLOGY AND MEDICAL STATISTICS 21-28



4.1 KAYACHIKITSA

Theory Two Papers - 100 Marks Each Practical/Viva voce - 100 Marks

Paper I

100 Marks

Part - A

50 Marks

Derivation of the terms 'Kaya', 'Chikitsa' and their definitions and synonyms. Definition of 'Kayachikitsa, Definition of 'Bheshaja'. Types and detailed description of Bheshaja and Chikitsa, Knowledge about Chikitsa Chatushpada, Rogi Roga Pariksha Siddhantha, Astasthana Pariksha.

Importance of Kriya Kaala according to stages of Dosha and their management.

Chikitsa sutra and Management of vriddhi (increased) and kshaya (decreased) of Dosha, Dhatu and Mala, Ojo Vyapat (Kshaya, Visramsa and Vyapat) and its Sama-Nirama of Management and management. Chikitsasutra Chikitsa (Doshapratyanika, Prashamana Roga Roga-Anutpattikara Chikitsa, Vyadhipratyanika, Ubhayapratynika), Doshopakrama, Chikitsa sutra and Management of Sthanantara Dosha (Ashayapakarsha, Anuloma/Pratiloma gati of Dosha, Vimarga gamana of Dosha), Knowledge of Lina Dosha & its management, Diagnosis, Chikitsa Sutra and Management of Avarana and of Dhatu Pradoshaja diseases, Importance of Dosha, Dushya , Bala, Kaala, Agni, Prakriti, Vaya, Sattva Satmya, Desha, Ahara and stage of diseases in treating them. Chikitsa Sutra and Management of 'Samanyaja and Nanatmaja' diseases.

description of Dvividhopakrama (Santarpana and Apatarpana) and Detailed Shadavidhopakrama (Rookshana, Snehana, Swedana, Sthambhana, Langhana and Brimhana). Detailed description of Shodhana, Shamana and Nidana Parivarjana. Knowledge of Aushadha matra, Sevan kaala and Anupana, Definition and Knowledge

of Pathya-Apathya with examples of diseases of various systems.

Derivation of the term 'Manas', its sthana (place), Guna (qualities) and Karma (functions). Samanya Chikitsa Siddhanta of Manasa Roga.

Principles & Management of Nutritional deficiency disorders.

Management of Vardhakyajanita vikara, Indriyapradoshoja vikara, Alzhiemer's Disease,

Sleep disorders, General debility.

General introduction and principles of Management of diseases produced by Genetic, Environmental and Iatrogenic factors. Disorders due to drug and Food allergy and their management and other allergic conditions.

50 Marks Part B

1. Detailed description of Chikitsa Sutra and Management of Jwara and its types. Etiopathogenesis & relevant Ayurvedic and Modern management of following types of Fevers-Typhoid, Pneumonia, Pleurisy, Influenza, Mumps, Meningitis, Encephalitis, Tetanus, Yellow fever, Plague, Dengue Fever, Chikun Guniya, Leptospirosis, Viral Fever, Anthrax, Masurika (Small pox), Laghu Masurika (Chicken pox), Romantika (Measles).

1. Chikitsa sutra and Management of the diseases of Rasavaha Srotas such as - Pandu, Amavata, Madatyaya, Hridroga, Hridshoola, Hypotension, Hypertension, Anaemia,

Rheumatoid arthritis.

2. Chikitsa sutra and Management of the diseases of Raktavaha Srotas such as -Raktapitta, Kamala, Kumbhakamala, Halimaka, Daha, Mada, Murcha, Sanyasa, Vatarakta, Plihadosha, Yakrut dosha, Haemolytic disorders, Hepatitis, Cirrhosis of Liver, Leukaemia, Kushta, Shvitra, Visarpa, Sheetapitta, Udarda, Kotha and Kshudra Roga.



3. Knowledge of National Health Programmes and the relevant Ayurvedic Management of the following diseases enlisted by World Health Organisation- Malaria, Filaria, Kala Azar, Leprosy, Tuberculosis, AIDS.

4. Introduction of general principles of maintenance of health and management of diseases of following systems of Medicine- Yoga, Naturopathy, Unani, Siddha,

Physiotherapy and Rehabilitation.

5. Diseases of different Endocrine Glands- such as Thyroid, Parathyroid, Pituitary, Pancreas and Adrenal glands and their management.

6. General introduction, types and Management of diseases caused by Vyadhi Kshamatwa

Hinata (Immuno deficiency disorders), Auto Immune Disorders.

7. Description and Management of following Emergency Conditions- Acute Haemorrhage, Hypertensive Emergencies, Acute abdominal pain (Renal colic, Biliary colic, Gastritis, Pancreatitis, Peritonitis and Appendicitis), Acute Abdomen, Anuria/ Oliguria, Congestive Heart Failure, Myocardial Infarction/Angina, Shock, Syncope, Convulsions, Hyperpyrexia, Hyperglycaemia, Hypoglycaemia, Status Asthmaticus, Acute Respiratory distress Syndrome, Drowning and Electric shock.

PAPER II 100 Marks

Part A 50 Marks

1. Chikitsa sutra and Management of the diseases of Pranavaha Srotas such as - Kasa, Shwasa, Hikka, Rajayakshma, Urakshata, Parshwashoola, Bronchitis, Bronchiectasis, Emphysema and COPDs.

2. Chikitsa sutra and Management of the diseases of Udakavaha Srotas such

as- Shotha, Jalodara, Trishna, Water & Electrolyte Imbalance.

3. Chikitsa sutra and Management of the diseases of Annavaha Srotas such as – Agnimandya, Aruchi, Ajirna, Anaha, Atopa, Adhmana, Alasaka, Vilambika, Visuchika, Chardi, Grahani, Amlapitta, Gulma, Shoola, Bhasmaka, Acid peptic disorders.

4. Principles of treatment and management of Vata Vyadhi such as - Pakshavadha, Ekangavata, Sarvangavata, Ardita, Avbahuka, Kati Graha, Manyastambha, Gridhrasi, Vishwachi, Khalli, Khanja, Pangu, Padaharsha, Padadaha, Vatakantaka, Kroshtukashirsha, Udavarta, Kampavata, Dhatugata and Ashayagata Avarana Vata, other Vata Rogas, Parkinsonism.

5. Nidana and Chikitsa of Urusthambha, Gullian Barrie syndrome, Muscular Dystrophy,

Myasthenia Gravis, Motor Neuron Diseases and Neuralgia.

Part B 50 Marks

1. Chikitsa Sutra and Management of Mamsavaha Srotas and Medovaha Srotas such as- Gandamala, Galaganda, Mamsashosha, Arbuda, Apachi, Prameha, Sthaulya, Karshya, Diabetes Mellitus, Dyslipidaemia.

 Chikitsa Sutra and Management of 'Asthi and Majjavaha Srotas such as Asthimajja Vidradhi, Asthisoushirya, Asthi kshaya, Sandhigata Vata, Osteo Arthritis,

Osteomyelitis, Osteoporosis, Osteopenia.

3. Chikitsa sutra and management of Shukravaha srotas such as Klaibya, shukralpata, shukradosha, kshina shukra, dhwajabhanga.

4. Chikitsa Sutra and Management of diseases of Mutravaha Srotas such as -Mutrakricha, Mutraghata, Ashmari, Cystitis, Nephritis, Nephrotic Syndrome, BPH, Renal Failure.

5. Chikitsa Sutra and Management of diseases of Purishavaha Srotas such as – Atisara, Pravahika, Arsha, Purishaj Krimi, IBS and Ulcerative Colitis.

6. Chikitsa Sutra and Management of Sexually Transmited Diseases such as – Phiranga, Puyameha, Upadamsha, lymphogranuloma inguinale, Syphilis, Gonorrhoea.



- 7. Introduction, Definition and Management of Kama, Krodha, Lobha, Moha, Mada, Matsarya, Shoka, Bhaya, Vishada, Dainya, Harsha and Pragyaparadha.
- 8. Manas and Manovahasrotas, Nidana and Chikitsa of the following disorders Unmada-Apasmara-Atattvabhinivesha, Chittodvega, Vishada, Anxiety disorders, Depression, Somatoform and Mood disorders, Stress induced disorders, Psychosexual Disorders. Importance of Daivavyapashraya, Sattwavajaya, Adravyabhuta Chikitsa. Medhya Rasayana in the management of Manasa Roga. Bhuta Vidya diagnosis and management of graha disorders.
- 9. Derivation, definition and synonyms of Rasayana, importance of Rasayana and its benefits. Indications of Rasayana therapy. Classification of Rasayana. Kutipraveshika and Vatatapika Rasayana. Indications of Vatatapika Rasayana. Knowledge of Kayakalpa, Achara Rasayana. Procedures of Kutipraveshika, Poorvakarma and specific schedules to be followed after Kutipravesha, benefits of Kutipraveshika Rasayana, duration of process, Rasayana yoga and directions for their use. Determination of dose of Rasayana according to age. Rules and regulation after Rasayana therapy, Importance of Immunomodulators and antioxidants in Rasayana therapy.
- 10. Vajikarana- Derivation, definition, synonyms, necessity, benefits, importance of fertility, Symptoms of Shûkra (Semen), Vajikaran Dravya and Aushadhi. Properties, doses, methods of administration, ingredients and methods of formation of Rasayana & Vajikarana formulation. Classification and importance of Vajikarana Dravya

Distribution of practical Marks 100

1) Daily case record/ 20 cases	- 20 marks
2) Patient examination	
a) 1Long case	- 20 marks
b) 1 short case	- 10 marks
3) Viva –voice	
a) Paper I	- 25 marks
b) Paper II	- 25 marks

Reference books:

- 1. Charak Samhita, Sushrut Samhita, Ashtanga Samgraha and Ashtanga Hridaya with their commentries. Madhav Nidana with Madhukosha Commentary.
- Ayurvediya Vyadhi Vigyana
 Roga Pariksha Vidhi
 Panchakarma Vigyan
 Cikitsadarsha
 Kayachikitsa I-IV
 Ayurved Nidan Chikitsa Siddhanta
 Kayachikitsa Vol. I-IV.
 Yadavji Trikamji
 Priyavrat Sharma
 Haridasa Sridhar Kasture
 Pandit Rajesvardutta Shastri
 Ramaraksha Pathaka
 Prof. R.H.Singh.
 Prof. Ajay Kumar
- 9. Davidson's Principles and Practice of Medicine.
- 10. API Text Book of Medicine.
- 11. Harrison's Text Bok of Medicine.
- 12. Cecil Text Book of Medicine.
- 13. Panchkarma Illustrated by Dr. G.Srinivasacharya.
- 14. Other relevant publications on subjects concerned

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4.2. PANCHAKARMA

Theory One Paper - 100 Marks
Practical Viva-voce - 50 Marks
Hours of teaching Theory - 100
Clinical training: 3 months

I. Introduction

- 1. Introduction to Panchakarma, Panchakarma and Shodhana, its importance for promotion of health, prevention and treatment of diseases.
- 2. Trividha Karma- Purva, Pradhana and Pashchat Karma in relation to Shodhana and their importance.
- 3. Indications of Shodhana, Shodhana according to Ritu
- 4. General Principles of doshagati from Koshta to Shaka and vice versa
- 5. General precautions (Pariharya Vishaya) for Panchakarma
- 6. Specifications of Panchakarma theatre and necessary equipments
- 7. Importance of Koshta and Agni Parikshan

II. Snehana

- 1. Etymology and Definition of Sneha and Snehana
- 2. Snehayoni- Sthavara and Jangama: Properties of Sneha dravyas, Snehopag Dravyas
- 3. General knowledge of Ghrita, Taila, Vasa and Majja with their specific utility and actions ,Yamaka, Trivrit and Maha Sneha
- 4. Metabolism of fat
- 5. Achcha and Pravicharana of Sneha
- 6. Snehapaka and its importance in Panchakarma
- 7. Types of Snehana: i) Bahya and ii) Abhyantara Snehana

i) Bāhya Snehana:

Methods, indications and contraindications of the following types of Bahyasnehana; Mardana, Unmardana, Pādāghāta, Samvāhana, Karna Purana & Akshi Tarpan, Lepa, Talam,

Murdhni Taila: Siro-Abhyanga, Shiro Seka/dhārā, Siro Pichu and Siro-Basti

ii) Ābhyantara Snehana

Three Types of Ābhyantara Snehana: Shodhanārtha, Shamanārtha and Brimhanārtha Snehana, Indications and contraindications for Snehana

Shodhanārtha Snehana

- a. Importance and method of Deepan Pāchan and Rookshana in Shodhanārtha Snehana. Properties of Rookshana Dravya. Samyak Rookshana Lakshana
- b. Consideration of Agni and Koshtha in Snehana
- Indication of Different Matra, Various dose schedules for Shodhanārtha Snehana;
 Hraseeyasi, Hrasva, Madhyama and Uttama Mātrā, Ārohana Mātrā
- d. Methods of Shodhanārtha Snehana,
- e. Anupāna of Sneha

Der

f. Jeerna and Jeeryaman Lakshana

- g. Samyak Yoga, Ayoga and Atiyoga of Snehana, Sneha Vyāpat & their management according to Ayurveda & Modern Medicine
- h. Diet and regimen during Snehana

Sadyo Sneha: Method of administration, dose fixation and utility

Shamanārtha Snehana, Method of administration, dose fixation and utility

Bronhanarth Senhana: Method of administration, dose fixation and utility

Avapeedak Sneha: Method of administration, dose fixation and utility

- 8. Snehana Kārmukata (mode of action)
- 9. Special Procedures:

Takradhara, Udvartanam, Putpāka, Aschotana, Gandusha, Kavala, Anjana, Dhoompāna, Udvartana, Utsādana, Udgharshana, Talapothichil

III. Svedana

- 1. Etymology and Definition of Sveda and Svedana
- 2. Classifications of Sveda/Svedana
- 3. General Sweda dravya, Properties of Sweda dravyas, Swedaopag dravyas ,
- 4. Indications and contraindications of Svedana
- 5. Ten Types of Niragni Svedana
- 6. Knowledge of 13 types of Sagni Svedana and Chaturvidh Svedan
- 7. Detailed Knowledge with their Utility of the following Svedana procedures: Sankara/Pinda Sveda-Ruksha and Snigdha Sveda Patrapinda Sveda, Jambir Pinda Sveda, Vāluka Sveda, Churna Pinda Sveda, Kukkutand Pinda Sveda, Shashtika Shalipinda Sveda, Nadi Sveda, Bashpa Sveda Ksheer dhooma ,Ksheer Seka, Kwath Seka, Avagaha Sveda,Dhanymla Dhara Parisheka Sveda, Pizichil, Upanaha Sveda, Annalepa
- 8. Local Basti such as Kati Basti, Janu Basti, Greeva Basti and Urobasti
- 9. General precautions during Sagni Svedana and Methods to protect vital during
- 10. Samyak Yoga, Ayoga and Atiyoga of Svedana
- 11. Complications of Svedana and their Management according to Ayurveda & Modern
- 12. Diet and management during and after Svedana
- 13. Parihār Vishaya
- 14. Svedana Kārmukata (Mode of action)
- 15. General Knowledge about current Sudation techniques like Sauna bath, Steam bath

IV. Vamana Karma

- 1. Etymology, definition and importance of Vamana Karma
- 2. Utility of Vamana Karma in health and disease
- 3. Indications and Contraindications for Vamana
- 4. Knowledge of Koshta and Agni
- 5. General knowledge of Vamana and Vamanopaga drugs; properties, actions, preparations, preservation with special reference to Madanphala, Kutaj, Nimba, Yashti, Vacha
- 6. Purva Karma of Vamana: Deepan-Pāchana, Abhyantara Snehana and diet



- 7. Management of one gap day-Abhyanga & Svedana, diet, special Kapha increasing diet
- 8. Preparation of the patient on Morning of Vamana day
- 9. Vamaka Yoga, Anupana, fixation of dose and method of administration
- 10. Administration of Vamanopaga Dravya such as milk, sugarcane juice, Yashtimadhu decoction
- 11. Lakshana indicating Doshagati during the process
- 12. Management during Vamana Karma & observations
- 13. Symptoms of Samyak Yoga, Ayoga and Atiyoga of Vamana Karma
- 14. Post Vamana management
- 15. Types of Shuddhi-Hina, Madhya and Pravara
- 16. Peyadi Samsarjana Krama and Tarpanadi Kram with their specific indications
- 17. Complication of Vamana and their management with Ayurveda and modern drugs
- 18. Pariharya Vishaya
- 19. Vamana Karmukata (Mode of action).

V. Virechana Karma

- 1. Etymology, definition and importance of Virechana Karma
- 2. Utility of Virechana Karma in health and disease
- 3. Indications and Contraindications for Virechana
- 4. Knowledge of Koshta and Agni
- 5. Classification of Virechana Drugs, General properties of Virchana dravya
- General knowledge of single and compound Virechan drugs; properties, actions, preparations, preservation with special reference to Trivrutta, Aragvadha, Eranda, Katuki, Jaipal
- 7. Purva Karma of Virechana: Deepan- Pachana, Abhyantara Snehana and diet
- 8. Management of 3 gap days-Abhyanga, Svedana & diet
- 9. Management on Morning of Virechana day
- 10. Preparation of Virechana Kalpa, Anupana, dose and method of its administration
- 11. Method of Virechana Karma and management during Virechana Karma & observations
- 12. Symptoms of Samyak Yoga, Ayoga and Atiyoga of Virechana Karma
- 13. Post Virechana management
- 14. Types of Shuddhi-Hina, Madhya and Pravara and accordingly Samsarjana Krama
- 15. Complications of Virechana and their management with Ayurveda and modern drugs
- 16. Pariharya Vishaya
- 17. Virechana Kārmukatā (Mode of action)

VI. Basti Karma

- 1. Etymology, definition and importance of Basti as Ardha-Chikitsa
- 2. Utility of Basti Karma in health and disease
- 3. Basti Yantra- Putaka & Netra, Detailed study of traditional Basti Yantra and their Doshas
 - Knowledge of alternative Basti Yantra-enema can, enema syringe, modified plastic/rubber bag for Putaka, modified plastic netra.
- 4. Classifications of Basti

Del

- 5. Karma, Kāla and Yoga Basti schedules along with their utility.
- classifications, sub-6. Niruha Basti: Its etymology, synonyms, definition, classifications & indications and contraindications.
 - a. Dose fixation of Niruha Basti according to age
 - b. Contents and Method of preparation of Niruha Basti dravya
 - c. Diet
 - d. Administration of Niruha Basti
 - e. Pratyāgamana Kāla, Post Niruha Basti management
 - f. Samyak Yoga, Ayoga and Atiyoga of Niruha.
 - g. Complication of Niruha Basti and its management according to Ayurved and Modern Medicines
 - h. Pariharya Vishaya and kala
- 7. Anuvasana Basti: Its etymology, synonyms, definition, classifications, subclassifications & indications and contraindications.
 - a. Dose fixation of Anuvasan Basti according to age
 - b. Contents and Method of preparation of Anuvasan Basti dravya

 - d. Administration of Anuvasan Basti
 - e. Pratyāgamana Kāla, Post Anuvasan Basti management
 - f. Samyak Yoga, Ayoga and Atiyoga of Anuvasana.
 - g. Complication of Anuvasan and its management according to Ayurved and Modern Medicines
 - h. Pariharya Vishaya and kala
- 8. Basti Kārmukatā (Mode of action).
- 9. Knowledge of following types of Basti: Madhutailika Basti, Erandmuladi Basti, Yāpana Basti, Pichchha Basti, Kshira Basti, Kshara Basti, Vaitarana Basti, Panchaprasutik Basti, Lekhan Basti, Krumighna Basti, Tiktashir Basti, Ardhamātrika Basti
- 10. Uttara Basti,: its definition, indications and contraindications, Detailed study of traditional Basti Yantra and their Doshas Knowledge of alternative Basti Yantra
 - a. Preparation of patient,
 - b. Preparation of Trolley for Uttarbasti,
 - c. drug preparation and Fixation of dose,
 - d. method of administration in male and females,
 - e. observations,
 - f. complications and their management

VII. Nasya

- 1. Etymology, definition, Significance of Nasya Karma.
- 2. Classifications and sub-classifications
- 3. Knowledge of general Dravya used for Nasya Karma, Shirovirechan Gana, Shirovirechanopag dravyas
- 4. Indications and contraindications of Nasya
- 5. Time of administration of Nasya
- 6. Dose fixation of different types of Nasya
- 7. Diet and regimen before and after Nasya Karma
- 8. Administration of Marsha, Pratimarsha, Avapeedaka, Dhoomapana and Dhuma Nasya
- 9. Symptoms of Samyak-yoga of Nasya,



- 10. Complication of Nasya and their management
- 11. Parihār Vishaya
- 12. Nasya Karmukata (mode of action)

VIII. Raktamokshana

- 1. Definition, importance and Types of Raktamokshana
- 2. General Principles and rules of Raktamokshana
- 3. Classification of Raktamokshan
- 4. General Indication and Contra indication of Raktamokshan
- Jalaukavacharana: Knowledge of different types of Jalauka (Leech), Indications and contraindications of Jalaukavacharana, various types of Jalauka. Method of Application, Samyak Lakshan, Complication of Jalaukavcharana and their management with Ayurveda and Modern medicines.
- Pracchāna: Indications and contraindications of Pracchana. Method of Application, Samyak Lakshan, Complication of Pracchana and their management with Ayurveda and Modern medicines
- 7. **Sirāvedha:** Indications and contraindications of Siravedha. Method of Application, Samyak Lakshan, Complication of Siravedha and their management with Ayurveda and Modern medicines
- 8. Knowledge of emergency management of complications such as water & electrolyte imbalance, shock, bleeding per rectal, hemetemsis, epistaxis

IX.Physiotherapy

- 1. Definition, Utility and Importance of Physiotherapy.
- 2. Basic Knowledge of Static exercise, Infrared, Short wave diathermy, Electromagnetic therapy, Wax bath therapy, Ultrasonic therapy.

PRACTICALS / CLINICAL TRAINING -

Total Duration of 3 Months posting

OPD (for 1-Month): observation of OPD patients, selection of the patients, observation of OPD base Panchakarma procedures

IPD (Panchkarma) and Panchakarma Unit – Observation of different procedures of Panchakarma, Assistance to the procedure under guidance of Panchakarma specialist

Under clinical posting, each student has to study and write 15-long Cases and 10 short cases in prescribed format

Long case Paper- minimum 1 Vaman , 1 Virechan, 1Niruha & Anuvasan Basti, 1Nasya, 1 Raktamokshan

Short case paper –Minimum one each of Pinda sweda, Shirodhara, Abhyanga, Netra Tarpan, Bahya Basti, Nadi Sweda etc.

Distribution of Marks

- 1. Practical Record of 25 procedures
- 2. Long Procedure

05 Marks

10 Marks

Total		50 Marks
6	5. General Viva-voce	20 Marks
5	5. Viva on Short Procedure	02 Marks
4	I. Short Procedure	08 Marks
3	3. Long Procedure Viva	05 Marks

1. Charak Samhita with Commentary of Ayurveda Dipika by Chakrapanidatta & Jalpakalpataru by Gangadhara

2. Sushrut Samhita with the Sushruta Nibhandha Samgraha Commentary of Dalhana & Nyayachandrika Panjika of Gayadasa on Nidana Sthana

Reference Books

3. Ashtanga Hridaya with Sarvanga Sundara & Ayurveda Rasayana Commentaries

4. Ashtanga Sangraha with Shashilekha Commentaries

5. Ayurvediya Panchakarma Chikitsa Dr Mukundilal Dwivedi 6. Panchakarma Vigyan Dr Haridas Shreedhar Kasture 7. Illustrated Panchakarma Dr.G Srinivasa Acharva 8. Clinical Panchkarma (English) Dr. P.Yadaiah 9. Prayogika Panchkarma (Hindi) Dr. P. Yadaiah 10. Vivida Vyadhiyome Panchkarma (Hindi) Dr. P. Yadaiah

11. The Panchkarma Treatment of Ayurveda with Kerala Specialtie Dr. T.L. Devaraj

12. Panchkarma Therapy Dr. R.H. Singh

13. Ayurveda-Principles and Panchakarma Practice Dr Mandip R. G. & Prof. Gurdip Singh

14. Principles and Practice of Basti

Dr. Vasudevan & Dr. L. Mahadevan Dr. Manoj Shamkuwar

15. Panchakarma Sangraha

16. Essential of Panchakarma Therapy Dr. Pulak Kanti Kaur 17. Principles and Practice of Panchakarma Vaidya Vasant Patil

18. Harrison's Principle of Internal Medicine

19. Guyton's Physiology

4.3 SHALYA TANTRA

Theory Two Papers – 100 Marks Each Practical - Viva voce – 100 Marks

PAPER -I

100 Marks

Part - A

50 Marks

Definition of Shalya, Shalya Tantra and its importance. Introduction to Shalya Tantra: Historical background and progress made.

- Target Fluency in textual reading and comprehension.
- Preferable targets Know recent developments and controversies.

Description of Yantra, Shastra, Anushastra: Definition, number, types, uses, Dosha, Guna, Karma. Relevant modern instruments.

- Target Basic understanding of the concepts of Yantra and Shastra. Acquaintance with commonly used surgical instruments. Knowledge of textual descriptions.
- Preferable targets Knowledge about currently used surgical instruments, their specifications, procurement sources etc.

Nirjantukarana / Sterilization: Methods, types and its role in surgical practice.

- Target Basic surgical discipline of maintaining asepsis.
- Preferable targets- Knowledge of recently developed chemicals, instruments for sterilization.

Sangyaharan / Anaesthesia: Definition and Types.

- Local anaesthesia Drugs, Techniques, Indications, Contraindications, Complications and their Management.
- Regional and General anaesthesia- Drugs, Techniques, Indications, Contraindications, Complications and their Management.
 - Target-Basic knowledge of the drugs and instruments of anaesthesia. To observe the process of induction, monitoring and recovery.
 - Preferable targets- Assisting and handling anaesthesia.

Trividha Karma - Purva Karma, Pradhana Karma and Paschat Karma.

- Target- Capability to identify conditions which can affect the outcome of surgery in pre, intra and post- operative period.
- Preferable targets- Experience of handling incidents.

Ashtavidha Shastra Karma - Surgical procedures.

- Targets- Appreciation and comprehension of concepts and indications of different procedures.
- Preferable targets –Hands on experience of surgical procedures.



Yogya - Experimental Surgery.

- Target –Appreciation and comprehension of concepts of Yogya. Idea of patient's safety in experimental training.
- · Preferable targets- Hands on training on mannequins.

Marma: Nirukti, types, description and importance.

- Target -Clinical application of concepts of marma.
- Preferable targets- Study of relevance of marma in the light of current anatomical and surgical knowledge.

Kshara and Kshara Karma:

- i. Nirukti, Pradhanyata, Guna, Dosha, Karma, Prakara, Yogya, Ayogya, Procedure, Upadrava and Chikitsa.
- ii. Kshara nirmana vidhi, knowledge of Kshara Varti, Taila and Pichu.
- iii. Kshara Sutra Preparation, Indications, Contraindications and Method of application, Complications and their Management.
 - Target Capability to identify and practice the use of kshara, kshara sutra in common clinical conditions.
 - Preferable targets Broader knowledge of current trends and ongoing researches in kshara application.

Agnikarma: Mahatva, Upakarana, Vidhi, Akruti bheda, Yogya, Ayogya and Upadrava Chikitsa.

Contemporary techniques and tools of Agnikarma.

- Target Capability to appreciate the clinical indications and comprehend Agnikarma procedure.
- Preferable targets Hands on experience of use of cautery in surgical practice.

Raktamokshana: Mahatva, Prakara - Siravyadha, Pracchanna, Shringa, Alabu, Jaloukavacharana - Yogya, Ayogya, Procedure, Upadrava and Chikitsa.

- Target- Capability to appreciate and comprehend clinical indications of Jaloukavacharana and other Raktamokshana procedures.
- Preferable targets Uses of bloodletting in current therapy.

Bandha Vidhi – Prayojana, Dravya, Indications, Contraindications, Prakara, Upadrava, Pichu, Plota, Kavalika and Vikeshika.

- · Target- Hands on experience of techniques of bandaging.
- Preferable targets New generation of bandaging and splintage tools.

Pranasta Shalya and Nirharana Upaya.

- Target Importance of concepts of Sushruta in the management of Shalya and concerns of patient safety. Identification and management of foreign bodies.
- Preferable targets Current concepts and diagnostic tools of dealing with foreign bodies.

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Fluid, Electrolyte, Acid Base Balance and Nutrition:

- i. Introduction of physiology of fluids and electrolytes.
- ii. Dehydration and over hydration.
- iii. Specific electrolyte loss, Acidosis, Alkalosis, Symptomatology and Management.
- iv. Electrolyte changes in specific diseases like pyloric stenosis, intestinal obstruction and anuria.
- v. Various replacement fluids in surgery, mode of administration and complications.
- vi. Nutrition.
 - Target Capability to identify and manage fluid and electrolyte imbalance. Ability to administer parenteral fluid.
 - Preferable targets Advanced techniques of fluid and electrolyte assessment and management.

Rakta Mahatwa, Raktasrava / Haemorrhage: Prakara and Lakshana.

- i. Raktastambhana Haemostasis.
- ii. Blood Transfusion –Blood groups, Compatibility, Indications, Contraindications and Complications with Management.
- iii. Component therapy.
 - Target-Knowledge of achieving haemostasis in haemorrhage.
 - Preferable targets Detailed knowledge of blood bank techniques.

Antibiotics, analgesics, anti-inflammatory and emergency drugs in surgical practice.

- Target Working knowledge of commonly used drugs.
- Preferable targets Advanced pharmacological study of the above drugs.

Diagnostic techniques – X-ray, Imaging techniques, Ultrasonography, CAT Scan, MRI, Biopsy / Cytological study.

- Target- Knowledge of proper indications for optimum investigational tools and their interpretation.
- Preferable targets Capability to work independently in the field of diagnostic techniques.

Part - B

50 Marks

Shat Kriyakala in surgical practice.

- · Target- Clinical utility of the concepts.
- Preferable targets Applied aspects of Kriyakalas in the light of current concepts of pathogenesis.

Nirukti, Nidana, Samprapti, Prakara, Lakshana, Sadhya-asadhyata, Upadrava and Chikitsa of the following disorders.

- i. Vranashotha Inflammation
- ii. Vidhradi Abscess
- iii. Pidika Boils
- iv. Nadi Vrana Sinus / Fistulae
- v. Vrana Granthi Keloid / Hypertrophic scar



- vi. Marmagata Shock
- vii. Kotha Gangrene and Principles of Amputation.
- viii. Granthi Cyst
- ix. Arbuda Tumour
 - Target-Clinical application of the concepts.
 - Preferable targets Hands on experience of management of different conditions.

Vrana - Nirukti and Prakara

- i. Nija Vrana Nidana, Samprapti, Vrana Vasthu, Prakara, Lakshana, Vrana Pariksha Sthana, Vrana Akruti, Srava, Gandha, Vedana. Vrana Avastha- Dustavrana, Shuddha Vrana, Ruhyamana Vrana, Samyak Roodha Vrana, Vrana Sadhya-asadhyatha and Vrana Upadrava.
- ii. Vrana Chikitsa Pathya-apathya and Shashti Upakrama, Vranitagara and Rakshakarma.
- iii. Agantuja Vrana:
 - a. Sadyo Vrana Traumatic wounds Nidana, Prakara, Lakshana, Upadrava and Chikitsa.
 - b. Management of bites and stings.
- iv. Dagdha Vrana Burns and scalds.
- v. Ulcer Types and their management.
- vi. Wound healing stages and their management.
- vii. Pramehapidaka Diabetic carbuncle and wounds.
 - Target Clinical application of the concepts.
 - Preferable targets Hands on experience of management of different conditions.

Twak Vikara - Nidana, Samprapti, Lakshana and Chikitsa of Chippa - Paronychia, Kadara - Corn and Kshudra rogas.

- Target Clinical application of the concepts.
- Preferable targets Hands on experience of management of different conditions.

Manya Vikara – Nidana, Samprapti, Lakshana and Chikitsa of Galaganda – Goitre, Gandamala, Apachi – Lymphadenitis, Pashanagardhabha – diseases of parotid gland.

- Target-Clinical application of the concepts.
- Preferable targets Hands on experience of management of different conditions.

Sira Vikara - Venous disorders - Superficial and Deep venous thrombosis, Haemangioma, Varicose veins - Diagnosis and their Management.

- Target Clinical application of the concepts.
- Preferable targets Hands on experience of management of different conditions.

Dhamani Vikara - Arterial disorders - Nidana, Samprapti, Lakshana and Chikitsa of Aneurysm, Buerger's disease, Atherosclerosis, Raynaud's disease.

- Target Clinical application of the concepts.
- Preferable targets Hands on experience of management of different conditions.

Snayu Vikara - Diseases of tendons and ligaments – Tennis elbow, Ganglion and their Management.

• Target - Clinical application of the concepts.

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Preferable targets - Hands on experience of management of different conditions.

Care of AIDS - HIV and hepatitis infected patients.

• Target - Knowledge of safety precautions.

PAPER - II

100 Marks

Part - A

50 Marks

Bhagna – Skeletal injuries: Prakara including pathological fracture, Samanya Lakshana, Upadrava and Chikitsa.

Description of fracture of following bones with Clinical features, Diagnosis, Complications and Management – scapula, clavicle, humerus, radius, ulna, femur, patella, tibia and pelvis bones.

Sandimoksha - Dislocation: Dislocation of following joints with Clinical features, Diagnosis, Complications and Management of shoulder, elbow and hip.

- · Target Clinical utility of the concepts.
- Preferable targets Hands on experience of management of different conditions.

Diseases of bone: Aetiopathogenesis, Classification, Clinical features, Diagnosis, Complications and Management of Congenital anomalies, Osteomyelitis, Cysts, Tumours and Tuberculosis.

- Target Clinical utility of the concepts.
- Preferable targets Hands on experience of management of different conditions.

Cranio-cerebral injuries: Mechanism, Pathology, Classification, Investigations, Complications and primary management.

- Target Clinical utility of the concepts.
- Preferable targets Hands on experience of management of different conditions.

Diseases of Spine: Mechanism, Pathology, Classification, Investigations, Complications and primary management of Tuberculosis, Ankylosing Spondylitis and Disc prolapse.

- Target Clinical utility of the concepts.
- Preferable targets Hands on experience of management of different conditions.

Diseases of breast: Aetiopathogenesis, Classification, Clinical features, Diagnosis, Complications and Management of Sthana Vidradhi - Breast abscess and Sthana Arbuda - Breast tumours.

- Target Clinical utility of the concepts.
- Preferable targets Hands on experience of management of different conditions. Diseases of chest: Aetiopathogenesis, Classification, Clinical features, Diagnosis, Complications and Management of Chest injury, Pleural effusion, Pleurisy and Tumours.
 - · Target Clinical utility of the concepts.
 - Preferable targets Hands on experience of management of different conditions.

Diseases of esophagus: Aetiopathogenesis, Classification, Clinical features, Diagnosis, Complications and Management of Congenital anomalies, Oesophagitis, Varices, Ulcer and Tumours.

- Target Clinical utility of the concepts.
- Preferable targets Hands on experience of management of different conditions.

Gulma Roga - Nidana, Prakara, Lakshana, Upadrava and Chikitsa.

Shoola vyadhi - Nidana, Prakara, Lakshana, Upadrava and Chikitsa.

- Target Clinical utility of the concepts.
- Preferable targets Hands on experience of management of acute abdomen.

Udara Roga: Aetiopathogenesis, Classification, Clinical features, Diagnosis, Complications and Management of Jalodara - Ascites, Chidrodara - Perforation, Peritonitis and Badhagudodara-Intestinal obstruction.

- · Target Clinical utility of the concepts.
- Preferable targets Hands on experience of management of different conditions.

Diseases of stomach and duodenum: Aetiopathogenesis, Classification, Clinical features, Diagnosis, Complications and Management of Pyloric Stenosis, Peptic Ulcer and Tumours.

- Target Clinical utility of the concepts.
- Preferable targets Hands on experience of management of different conditions.

Diseases of small intestine: Aetiopathogenesis, Classification, Clinical features, Diagnosis, Complications and Management of Tuberculosis, Obstruction and Perforation.

- Target Clinical utility of the concepts.
- Preferable targets Hands on experience of management of different conditions.

Diseases of large intestine - Aetiopathogenesis, Classification, Clinical features, Diagnosis, Complications and Management of Tuberculosis, Obstruction, Perforation, Tumours, Appendicitis, Crohn's disease and Ulcerative Colitis.

- Target Clinical utility of the concept.
- Preferable targets Hands on experience of management of different conditions.

Diseases of Rectum and Anal Canal – Aetiopathogenesis, Classification, Clinical features, Diagnosis, Complications and Management of Congenital disorders, Arshas - Haemorrhoids, Parikartika - Fissure-in-ano, Bhagandara - Fistula-in-ano, Guda Vidradi - Anorectal abscesses, Gudabhramsa - Rectal prolapse, Sanniruddaguda - Anal stricture, Incontinence, Rectal Polyp and Tumours.

- · Target Clinical utility of the concepts.
- Preferable targets Hands on experience of management of different conditions.

Abdominal injuries and their management.

- Target Clinical utility of the concepts.
- Preferable targets Hands on experience of management of different conditions.



Part - B

50 Marks

Diseases of Liver: Aetiopathogenesis, Classification, Clinical features, Diagnosis, Complications and Management of Yakrit Vidhradi - Abscess, Neoplasia, Portal hypertension and Yakritdalyodar -Hepatomegaly.

- Target Clinical utility of the concepts.
- Preferable targets Hands on experience of management of different conditions.

Diseases of Gallbladder: Aetiopathogenesis, Classification, Clinical features, Diagnosis, Complications and Management of Cholecystitis, Cholelithiasis, Obstructive jaundice and Tumours.

- Target Clinical utility of the concepts.
- Preferable targets Hands on experience of management of different conditions.

Diseases of Pancreas: Aetiopathogenesis, Classification, Clinical features, Diagnosis, Complications and Management of Pancreatitis, Cysts of Pancreas and Tumours.

- Target Clinical utility of the concepts.
- Preferable targets Hands on experience of management of different conditions.

Diseases of Spleen – Aetiopathogenesis, Classification, Clinical features, Diagnosis, Complications and Management of Pleehodara – Splenomegaly and Splenic rupture.

- Target Clinical utility of the concepts.
- Preferable targets Hands on experience of management of different conditions.

Diseases of Kidney and Ureters - Aetiopathogenesis, Classification, Clinical features, Diagnosis, Complications and Management of Congenital anomalies, Polycystic kidney, Injuries, Perinephric abscess, Calculus and Neoplasms.

- · Target Clinical utility of the concepts.
- Preferable targets Hands on experience of management of different conditions.

Diseases of Urinary bladder – Aetiopathogenesis, Classification, Clinical features, Diagnosis, Complications and Management of Congenital anomalies, Injuries, Ashmari - Vesical Calculus, Cystitis and Neoplasms.

- Target Clinical utility of the concepts.
- Preferable targets Hands on experience of management of different conditions.

Mutraghata and Mutrakrichra - Aetiopathogenesis, Classification, Clinical features, Diagnosis, Complications and Management. Retention of urine.

- Target Clinical utility of the concepts.
- Preferable targets Hands on experience of management of different conditions.

Diseases of Prostate - Aetiopathogenesis, Classification, Clinical features, Diagnosis, Complications and Management of Prostatitis, Prostatic abscess, Benign Enlargement of Prostate and Carcinoma of Prostate.

- Target Clinical utility of the concepts.
- Preferable targets Hands on experience of management of different conditions.

Diseases of Urethra – Aetiopathogenesis, Classification, Clinical features, Diagnosis, Complications and Management of Urethritis, Stricture and Rupture.

- · Target Clinical utility of the concepts.
- Preferable targets Hands on experience of management of different conditions.

Diseases of Penis: Aetiopathogenesis, Classification, Clinical features, Diagnosis, Complications and Management of Congenital anomalies, Niruddhaprakasha -Phimosis, Parivartika -Paraphimosis, Avapatika - Prepuceal ulcer, Arbuda- Tumours and Lingarsha - Penile Warts.

- Target Clinical utility of the concepts.
- Preferable targets Hands on experience of management of different conditions.

Diseases of Scrotum and Testis: Aetiopathogenesis, Classification, Clinical features, Diagnosis, Complications and Management of Epididymo-orchitis, Epididymal cyst, Scrotal filariasis, Shukrashmari - Seminal calculus, Torsion of testis, Ectopic testis, Undescended testis and Tumours.

Vriddhi Roga: Aetiopathogenesis, Classification, Clinical features, Diagnosis, Complications and Management of Mutravriddhi – Hydrocele.

- Target Clinical utility of the concepts.
- Preferable targets Hands on experience of management of different conditions.

Antra Vriddhi – Aetiopathogenesis, Classification, Clinical features, Diagnosis, Complications and Management of Hernia - Inguinal, Femoral, Epigastric, Umbilical, Incisional and rare forms of Hernia.

- · Target Clinical utility of the concepts.
- Preferable targets Hands on experience of management of different conditions.

PRACTICALS

Content of Practicals:

- 1. Identification, uses, demonstration of surgical instruments and methods of sterilization.
- 2. Training of case taking, bed side clinicals and case presentation.
- 3. Demonstration and Practical training in Anaesthesia.
- 4. Training to develop skills in following Parasurgical and other procedures
 - i. Kshara Karma
 - ii. Agnikarma
 - iii. Kshara Sutra
 - iv. Raktamokshana
 - v. Application of bandages and splints
 - vi. Catheterization
 - vii. Wound management procedures like Parisheka and Patradana
 - viii. Ryle's tube aspiration
 - ix. Injections -Intramuscular / Intravenous / Subcutaneous / Intradermal
 - x. Incision and drainage of abscess
 - xi. Suturing of open wounds
- 5. Observation of following procedures

Our

- i. Circumcision
- ii. Hydrocele
- iii. Hernial repair
- iv. Vasectomy
- ٧. Haemorrhoidectomy
- vi. Fistulectomy
- vii. Fissurectomy
- Appendecectomy viii.
- Cholecystectomy ix.
- 6. Training of Surgical Emergencies and Management.

Clinical Training (Indoor and Outdoor)

- Shalya (Samanya)
- Shalya (Kshara and Anushastra Karma)
- Asthi and Sandhi Chikitsa (Orthopaedics and Trauma)
- Anaesthesia
- Radiology

09 Months

03 Months (atleast one month in OT)

03 Months (atleast one month in OT)

02 Months

15 days 15 days

Distribution of Marks

1)	Daily records	- 10 Marks
2)	Instruments	- 20 Marks
3)	Short case	- 10 Marks
4)	Long case	- 20 Marks
5)	Viva – voce	- 40 Marks
	Total	- 100 Marks

Reference Books

- 1. Sushruta Samhita
- 2. Ashtanga Sangraha
- 3. Ashtanga Hridaya
- 4. Charaka Samhita
- 5. The Surgical instruments of the Hindus
- 6. Shalya Tantra Samuchchaya
- 7. Shalya Vigyan (Part 1-2)
- 8. Shalya Samanvaya (Part 1-2)
- 9. Shalya Pradeepika
- 10. Soushruti
- 11. Clinical Shalya Vigyan
- 12. Bhagna Chikitsa
- 13. Kshara sutra management in anorectal ailments Dr. S.K. Sharma, Dr. K.R.Sharma
- 14. Anorectal diseases in Ayurveda
- 15. Adhunika Shalya Chikitsa Siddanta
- 16. Agnikarma Technology Innovation
- 17. Shalya Tantra Ke Siddhant
- 18. Recent advances in the management of Arshas / Haemorrhoids Dr. P. Hemantha

- Girindranath Mukhopadhyaya
- Pandit Ramadesh Sharma
- Dr. Surendra Kumar Sharma
- Vd. Anantaram Sharma
- Dr. Mukund Swaroop Verma
- Dr. Ram Nath Dwivedi
- Dr. Akhilanand Sharma
- Dr. Prabhakar Janardhan
 - Deshpande
- and Dr. Kulwant Singh.
- Dr. Sijoria and Dr. Praveen Kumar Chowdary.
- Dr. Katil Narshingham Udupa
- Dr. P.D. Gupta
- Dr. K.K.Takral



19. Arsha Evum Bhagander Mein sutra Avacharan

20. Kshara Sutra

21. Surgical ethics of Ayurveda

22. Bailey and Love's Short Practice of Surgery

23. Clinical methods in surgery

24. Textbook of Operative Surgery

25. Shalya Vigyan (Sachitra)

26. Anushastra Karma

27. Concept of Vrana is Ayurveda

28. Significance for Poorva Karma in Surgical Patient - Dr. Lakshman Singh

29. Sangyaharan Prakash

30. A concise Text Book of Surgery

31. A manual on Clinical Surgery

32. A System of Surgical Diagnosis

33. A Practical Guide to Operative Surgery

34. Drugs and Equipment for Anaesthesia

35. Manual of Surgical Instruments

36. Ward Procedures

37. Recent trends in the management of Arshas / Haemorrhoids - Dr. P. Hemantha

38. Primary Anaesthesia

39. Synopsis of Anaesthesia

40. Clinical Anatomy/ Surgical Anatomy

45. Principles and Practice of Agnikarma

41. Surgical Instruments of the Hindus

42. Outline of Orthopedics

43. Outline of Fracture

44. Recent trends in the management of Bhagandara / Fistula-in-ano - Dr. P. Hemantha

46. Manipal Manual of Surgery

Kumar

- Vd. Kanak Prasad Vyas

- Dr. S.N.Pathak

- Dr. D.N. Pande

- Norman.S. Williams, Charles.V. Mann and R.C.G. Russell

- S. Das

- S. Das

- Anantram Sharma

- Dr. D.N. Pande

- Dr. Lakshman Singh

- Dr. D.N. Pande

- S. Das

- S. Das

- T.N. Patel

- S. Das

- Arun kumar

- M.M. Kapur

- Patel Mansukh. B

Kumar

- Maurice King

- Lee

- John E.Skandalakis

- Girindharnath Mukopadyay

- John Crawford Adams and David

Hamblen, L

- John Crawford Adams

- Dr. Anand Kumar and

Dr. Kanchan Shekokar

- Dr. Rajgopal Shenoy

4.4 SHALAKYA TANTRA

Theory Two Papers - 100 Marks Each Practical/Viva voce - 100 Marks

NETRA ROGA VIGYAN

Paper I

100

Marks

I. Introduction

a) Shalakyatantra nirukti, Parichayam, Ithihasam

b) Netra rachana shariram (Mandala, Patala, Sandhi, Drushti Vichara) and Netra Kriya Sharira alongwith modern anatomy of Eye.

c) Eye examination and knowledge of basic instruments/equipments required for examination of Eye.

d) Netrarognanam - Samanya Hetu (Nija and agantuja), Purvarupa, Samprapti, Rupa and Chikitsa.

e) Classification of Netraroga and its importance.

II. Netra Samanya and Vishishta Chikitsa - Kriya Kalpa

a) Netra and Chakshu swasthya hitkara Dinacharya, Ritucharya, Aahara evam Vihara.

b) 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, Pranashtashalva, Vranbandhana. Methods and concepts of sterlization, asepsis and antisepsis as per ancient and modern point of view.

Basic applied knowledge of Ashtavidha shastrakarma, agni, kshara, raktamokshana in

Nerta rogas.

e) Essential diagnostic and therapeutic modern pharmacological agents required in Netra Chikitsa

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

a) Number of sandhigata rogas, detailed etiology, pathology, clinical features and management of Pooyalasa and Srava Rogas.

b) Brief Study of krimi granthi, Parvani and Alaji Rogas.

c) 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)

a) Number of vartmagata rogas, and detailed knowledge of etiology, pathology, clinical features and management of Anjananamika, Utsangini, Lagana, Vatahata vartma, Pakshma kopa, Sikta vartma, Pothaki, Klinna vartma, Krichhronmeelana and Kukunaka diseases of Vartma.

b) Brief Knowledge of Vartmarbuda, Utklishta vartma, Nimesh, Pakshmashata, Vartmarsha

c) 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)

a) Number of Shuklagata rogas, detailed knowledge of etiology, pathology, clinical features

and management of Arma, Arjuna and Shuktika

b) Brief Knowledge of Sira pidika, Sira jala, Pishtaka, Balasgrathita.

c) 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)

- a) Number of krishnagata rogas, detailed knowledge of Etiology, Pathology, Clinical features, differential diagnosis, complications and Management of Savrana /kshata Shukla (Shukra), Avrana shukra (Shukla)
- b) Brief knowledge of Sira shukla, Akshipakatyaya and Ajakajata.
- 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 and Shushkakshipaka.
- b) Brief Knowledge of Amloshit, Vata paryaya, Anyato vata, Sashopha & Ashophakshipaka- Pilla roga, Sirotpata and Siraharsha.
- c) 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 detailed knowledge of etiology, pathology, clinical features, differential diagnosis and management of Timira, Kacha and Linga nasha.
- b) Brief Knowledge of Abhighataja lingnasha, sanimittaja & Annimittaja Lingnasha Doshandhya/Kaphavidagdha drishti, Naktandhya, Ushna vidagdha drishti, Pittavidagdha drishti, Dhumadarshi, Hriswajadya, Gambhirika, Nakulandhya, Nayanabhighata.
- c) Knowledge of Refractive errors, Cataract including their etiology, pathology, clinical features, differential diagnosis, complications and their management.
- d) 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 Diseases

- 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



SHIRA - KARNA- NASA- MUKHA ROGAS

PAPER II 100 Marks

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 Vataja, Pittaja, Kaphaja shirashoola, Suryavarta, Ardhavabhedaka, Khalitya, Palitya.

d) Brief Knowledge of Raktaja shiraha shoola, Krimija shiraha shoola , Kshayaja shiraha shoola & Sannipataja shiraha shoola, Ananta vata, Indralupta, Darunaka.

e) Detailed study of Headache, 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) Detailed study of etiology, pathology, classification, clinical features and management of diseases of Karna – karna shool, karna nada& shweda, Badhirya, karnastrava, karna pratinaha, pootikarna, karnagoothaka, karnavidradhi.

c) Brief Knowledge of karna kandu, karnapaka, karnarsha, karnarbuda,krimikaran &karnapali rogas , Karna sandhana(Auroplasty), fundamentals, method and Vaikritpaham

d) Detailed study of Otalgia, ASOM, CSOM, Deafness, wax including their etiology, pathology, clinical features, differential diagnosis, complications and medical & surgical management

e) Brief Knowledge of Otomycosis, Otosclerosis, Tinnitus, Vertigo, 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) Detailed study of Pratishyaya, Dushta pratishyaya, Nasanaha, Kshavathu, Nasagata raktapitta & Nasarsha.

c) Brief Knowledge of Putinasa, Bhranshathu, Peenasa, Apeenasa, Nasarbuda, Nasashotha, Dipta, Nasa Sandhana.

d) Detailed study of Rhinitis & Sinusitis Epistaxis, Nasal Polyp, DNS, Foreign body including their Etiology, pathology, clinical features differential diagnosis and medical & surgical management.

e) Brief Knowledge of Nasal trauma, Tumours of nose and Para nasal sinuses.

of

V Mukha Roga (Diseases of Oral Cavity)

- a) Detailed study of Rachana and Kriyasharir of Mukha Rogaadhisthana- 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.

Oshtha Roga (Diseases of Lips)

- a) Detailed study of Etiology, pathology, classification, clinical features and management of Oshtha prakopa, khandoshtha
- b) Brief Knowledge of Gandalaji, Jalarbuda, Kshataja Oshthaprakopa
- c) Knowledge of cleft lip.

Dant Mula Gata Roga (Diseases of Periodontia)

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

Danta Roga (Dental Diseases)

- a) Detailed study of Etiology, pathology, classification, clinical features and management of Daalan, Krimidanta, Dantaharsha, Danta sharkara, Hanumoksha
- b) Brief Knowledge of karala, Bhanjanak , Kapalika, Shyava Danta, Danta bheda,
- c) Danta chaal, Adhidanta, Danta Utpatana including Jalandhar bandha method and Danta Purna.
- d) Knowledge of Dental Caries, Dental Tartar & Tooth extraction.

Jihwa Gata Roga (Diseases of Tongue)

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

Talu Roga (Diseases of Palate)

- a) Detailed study of Etiology, pathology, classification, clinical features and management of Gala shundika, Talushosha, Talupaka
- b) Brief Knowledge of Talupupputa, Adhrusha, Kacchapa, Talvarbuda, Mamsasanghata.
- c) Knowledge of Cleft palate, palatitis, uvulitis and tumours of the palate.

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

a) Detailed study of Etiology, pathology, classification, clinical features and management of - Tundikeri, Kantha shaluka, Gilayu, Galaganda,

Der

Swrabhedha, Galavidradhi.

- b) Brief Knowledge of Rohini, Galashotha, Kantharbuda, Kanthavidradhi, Galarbuda Galaugham, Vrindam, Ekavrindam, Valaya, balasa , Shataghni, Swaraghna.
- c) Detailed study of Etiology, pathology, classification, clinical features and management of Pharyngitis, Laryngitis, Tonsillitis & Adenoiditis
- d) Brief Knowledge of foreign body in the throat, Carcinoma of Larynx & Pharynx, Dysphagia Diphtheria & diseases of salivary glands.

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

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

VI Miscellaneous Diseases

National Programme for Prevention and Control of Deafness.

PRACTICAL

Content of Practical

Identification, Uses, Demonstration of surgical/non-surgical equipment/ instruments, materials used in shalakya chikitsa. Method of sterilization. Training of case taking, bedside clinics and case presentation.

Training in para- surgical procedures-

- 1) Kshara karma
- 2) Agnikarma
- 3) Raktamokshana
- 4) Training of ward procedures. Application of bandages, wound management
- 5) Training of minor procedures (ashtavidha)
- 6) Observation of surgical procedures in Shalakya

Clinical Training	cal Training 04 Months (OPD, IPD OT and	
	kriya kalpa)	
Distribution of marks		
1) Long Case	30 Marks	
2) Short Case	20 Marks	
3) Identification of instruments	10Marks	
quipments,medicines,etc		
4) Viva – voce	30 Marks	
5) Daily Record (Case record)	10 Marks	
Total	100 Marks	

Reference Books:-

- 1. Shalakya Tantra
- 2. Shalakya Vigyan

Dr. Rama Nath Dwivedi

Dr. Ravindra Chandra Choudhary

all

- 3. Abhinava Netra Chikitsa
- 4. Netra Chikitsa Vigyan
- 5. Netra Roga Chikitsa
- 6. Netra Roga Vigyan
- 7. Parson's Diseases of Eye
- 8. Diseases of ENT Log and Turner
- 9. Shalakya Tantra
- 10. Atext book of ophthalmology in Ayurveda
- 11. Shalakya Kriya Kalpa Vigyan

Useful portions of Charak, Sushrut, Vagbhata

Acharya Vishva Nath Dwivedi

Dr. Ravindra Chandra Choudhary

Dr. Munje

Dr. Hans Raj

Shiv Nath Khanna

Dr. P.K.Shantha kumara

Prof. K. S. Dhiman

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4.5 Research methodology and Medical statistics

Total Marks 50 (Part A-30 and Part B- 20)

PART - A -Research Methodology

- 1. Brief historical background of research in Ayurved and contemporary medical science Evidences of researches in ayurvedic classics
- 2. Etymology, definitions and synonyms (Anveshana, Gaveshana, Prayeshana, Anusandhan and Shodha) of the word Research
- 3. Research in Ayurved Scope, need, importance, utility
- 4. Types of Research (familiarization of the terms)
 - a) Pure and Applied
 - b) Qualitative, Quantitative and Mixed Observational and interventional.
- 5. Research process (Importance of each steps in brief)
 - a. Selection of the topic
 - b. Review of the literature
 - c. Formulation of Hypothesis
 - d. Aims and Objectives
 - e. Materials and methods
 - f. Observations and results
 - g. Methods of communication of Research
- 6. Research tools Role of the pramanas as research tools
- 7. The concept and importance of ethics in research
- 8. Concept of Evidenvce Based Medicine and Scientific Writing
- 9. Importance of IT in data mining and important research data portalsconcerned with Ayurved and contemporary medical science (DHARA , PubMed, Ayush Research Portal, Bioinformatics Center, Research Management Informatic System etc.)

Part - B Medical-Statistics

- 1. Definition, scope and importance of the Medical statistics
- 2. Common statistical terms and notations
 - a. Population
 - b. Sample
 - c. Data
 - d. Variable
 - e. Normal distribution
- 3. Collection and Presentation of data
 - a. Tabular
 - b. Graphical
 - c. Diagrammatical
- 4. Measures of location
 - a. Average
 - b. Percentile

Measures of Central Tendency

- a. Arithmetic mean
- b. Median

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- E Mode
- 5. Variability and its measurement
 - a. Range
 - b. Standard deviation
 - 5 Standard error
- 6. Introduction to probability and test of significance
- 7. Parametric and non parametric tests
- 8. Introduction to commonly used statistical soft-wares.

Reference books for Research methodology:

- Dawson, Catherine, 2002, Practical Research Methods, New Delhi, UBS Publishers' Distributors
- Kothari, C.R., 1985, Research Methodology-Methods and Techniques, New Delhi, Wiley
 Eastern Limited.
- Kumar, Ranjit, 2005, Research Methodology-A Step-by-Step Guide for Beginners, (2nd.ed), Singapore, Pearson Education
- Students guide to research methodology Undergraduates, Alexandria Medical Students Association.
- Health research methodology. A guide for training in research methods. 2nd edition. Manila, World Health Organization Regional Office for the Western Pacific, 2001.

Reference Books for statistics:

- Health research methodology. A guide for training in research methods. 2nd edition. Manila, World Health Organization Regional Office for the Western Pacific, 2001.
- 2. Statistical methods in medical research, P.Armitage (Ed) Oxoford Blackwell
- 3. Statistical methods , Snedecor GW and Cochran, WG
- Altman, D. G. (1991) Practical statistics for medical research. London ChapmanPrinciples of Medical Statistics by A. Bradford Hill
- Interpretation and Uses of Medical Statistics by Leslie E Daly, Geoffrey J Bourke, James MC Gilvray.
- Research in Ayurveda-M S Baghel
- 7. research methodlogy in ayurveda-V.J.Thakar, Gujarat Ayurved University
- 8. Ayurveda anusandhan paddhati-P.V.Sharma
- 9.Research methodology methods and statistical techniques- Santosh Gupta.

 Greenhouse SW.
- 10. The growth and future of biostatistics: (A view from the 1980s).
 Statistics in Medicine 2003; 22:3323-3335.
- 11. Knapp GR & Miller MC. Clinical epidemiology and Biostatistics, NMS series.
 Antonisamy B, Christopher S & Samuel PP. Biostatistics: Principles and practice
- 12. Sundara Rao PSS & Richard J. An Introduction to Biostatistics, PHI
- 13. Senn S (1997). Statistical Issues in Drug Development. Chichester: John Wiley & Sons.
- 14. Methods in Bio-statistics for Medical Students- BK Mahajan
- 15. Valdyakeeya Sankhiki Shastra- Dr.S.S.Savrikar



CENTRAL COUNCIL OF INDIAN MEDICINE NEW DELHI SYLLABUS OF AYURVEDACHARYA (BAMS) 3rd Year

INDEX

3RD PROFESSIONAL	02-06
3.1. ROG-NIDAN	07-14
3.2. SWASTHAVRITTA	0,
3.3. PRASUTI TANTRA EVUM STRI ROGA	15-19
3.3. PRASUTI TANTKA EVOTI STALLAR	20-23
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3.1 ROGA NIDANA

Theory Two Papers - 100 Marks Each Practical/Viva voce - 100 Marks

PAPER -1

100 Marks

Part A

50 Marks

Dosha Dushyadi Vigyana

1. Definition and importance of Roganidana.

- 2. Samanya Nidana and Samanya Lakshana of Dosha Vriddhi, Kshaya and Prakopa.
- 3. Dosha Dhatu Ashraya Ashrayi Bhava.
- 4. Dhatu Kshaya Vriddhi Lakshana.
- 6. Mala Kshaya Vriddhi Lakshana.
- 7. Hetu, Bheda and Lakshana of Agni Dushti.
- 8. Definitions and Samanya Lakshana of Ama.
- 9. Sama and nirama Dosha, Dushya Lakshana.
- 10. Dosha Paka and Dhatu Paka Lakshana.
- 11. Concept, classification, diagnosis and general complications of Avarana.
- 12. Doshagati and Rogmarga.
- 13. Detailed study of Srotomoola and Srotodushti Samanya and Vishishta Hetu Lakshana of all Srotas. Differences between Sroto Dushti and Kha Vaigunya.

II. VyadhiVigyana

- 1. Definition, synonyms and classification of Vyadhi & Vyadhi Ghatak.
- 2. Criteria for nomenclature of Diseases in Ayurveda (Vyadhinamakarana).
- 3. Bija, Bija Bhaga and Bija Bhaga Avayava Dushti.
- 4. Basic knowledge of Hereditary, Congenital, Acquired, Multifactorial, Traumatic and Environmental disorders.
- 5. Introduction to ICD Classification of Diseases of WHO and DSM classification.
- 6. Samanyaja and NanatmajaVikara. NidanarthakaraVyadhi, Hetu Sankara, Lingasankara, Vyadhisankara, Vyadhi Awastha.
- 7. Dhatu, Updhatu, Mala and Indriya Pradoshaj Vikara.
- 8. Concept of AshtaMahagada.
- 9. Introduction to Ashta Nindita.
- 10. Definition and classification of Vyadhikshamatva.
- 11. Ojas types of Ojo Dushti- Visrimsa- Vyapad & Kshaya & It's Diseases.

III. Basic Pathology

- 1. Introduction to pathology and its sub-divisions.
- 2. Introduction to Cell Injury and Cellular adaptations.
- 3. Definition and brief description of inflammation Healing/repair.
- 4. Definition and brief description of edema shock hemorrhage, Thrombosis , embolism, Ischemia and Infarction.
- 5. Types of Immunity different types of immune responses in the body Basic knowledge of auto immune diseases, Acquired immune deficiency disease and hypersensitivity.
- 6. Nomenclature and classification of tumors difference between benign and malignant
- 7. Introduction to Nutritional disorders disorders of macro and micro nutrients.
- 8. Introduction to infections.
- 9. Introduction and classification of microorganisms such as virus- bacteria-fungus.



Part B 50 Marks

IV. Nidana Panchaka Vigyana

- 1. Difference between Roga and Rogi Pariksha.
- 2. Importance of Nidan Panchaka.
- 3. Hetu Definition, Synonyms and Classification.
- 4. Purva Rupa Definition, Synonyms, Samanya and Vishishta Purvarupa.
- 5. Rupa Definition, Synonyms, Samanya and Pratyatma Lakshana. Difference between Vyadhi and Lakshana.
- 6. Upashaya / Anupashaya Definition, Types and its importance in diagnosis.
- 7. Samprapti Definition, Synonyms and Type and Samprapti Ghataka.
- 8. Shat Kriyakaala. Relationship between Nidana Panchaka and Shat Kriyakaala.
- 9. Upadrava and Udarka.
- 10. ArishtaVigyan Definition, Types and its importance.
- 11. Sadhyasadhyatwa Types, their parameters and importance.
- 12. General diagnostic principles of AnuktaVyadhi (Ch. Vi. 4).

V. Pariksha Vigyana

- 1. Importance and knowledge of Aptopadeshadi & Darshanadi Trividha, Chaturvidha, and Shadvidha Pariksha.
- 2. Importance and Knowledge of Ashtasthana Pariksha.
- 3. Importance and Knowledge of Karanadi Dashavidha Parikshya Bhava.
- 4. Importance and Knowledge of Dashavidha Pariksha.
- 5. Basic knowledge of ECG, USG, X Ray, CT Scan, MRI.

Paper II 100 Marks 50 Marks

Systematic study of Nidana Panchaka of following diseases (Including Upadrava, Arishta and Sadhyasadhyata).

I. Diseases of Rasavaha Srotas

- 1(a) Jwara(Jwarabheda-Ama, Pachyamana and Nirama Jwara, Agantukajwara, Punaravartaka Jwara, Vishama Jwara, Dhatugata Jwara, Charakokta Sannipata Jwara.
- 1(b) General mechanism of Fever, Introduction to the Aetiopathogenesis of Malaria, Typhoid, Dengue fever, Influenza and Chikungunya.
- 2(a) Pandu, Amavata, Hridroga, Shotha.
- 2(b) Introduction to Anaemia & its Classification, Rheumatic fever, Rheumatoid Arthritis, Hypertension, Angina, Ischaemic Heart Disease, Myocardial Infarction and CCF.

II. Diseases of Raktavaha Srotas

- 1. Kamala Raktapitta Vatarakta Kroshtuksheersha Shitapitta Maha Kushtha Visarpa Shwitra and Introduction to Kshudra Kushtha.
- 2. Introduction to Hepatomegaly, Spleenomegaly, Leukaemia, Thalessemia, Sickle cell Anaemia.
- 3. Introduction to Urticaria, Psoriasis, Eczema, Pemphigus.

III. Diseases of Mamsavaha Srotas

- (a) Galganda
- (b) Introduction to Thyroid disorders

IV. Diseases of Medovaha Srotas

- 1. Sthoulya Karshya Prameha.
- 2. Introduction to Obesity and Diabetes Mellitus.

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V. Diseases of Asthi - Majjavaha Srotas

1. Vatavyadhi - Akshepaka - Apatanaka - Ardita - Pakshaghata - Gridhrasi -Vishwachi, Avabahuka, - Manyasthambha ,Katigraha,Pangutwa

2. Sandhigatavata, Asthi-Majjagata vata.

3. Introduction to Osteo- Arthritis, Osteoporosis.

4. Introduction to Parkinson's disease, Stroke, Lumbago- Sciatica syndrome, Bell's Palsy, Cervical- Lumber & Ankylosing Spondylitis.

VI. Diseases of Shukravaha Srotas

1. Introduction to Klaibya and Vandhyatva.

2. Introduction to male and female infertility.

Part B

50 Marks

VII. Diseases of Pranavaha Srotas

1(a). Kasa - Shwasa - Hikka - Urahkshata - Shosha - Rajayakshma.

1(b). Introduction to the aetiopathogenesis of Pneumonia, Pleural effusion, Bronchitis, Bronchiectasis, Bronchial Asthma.

VIII. Diseases of Annavaha- PureeshavahaSrotas

1. Agnimandya - Ajirna - Aruchi- Chhardi - Amlapitta- Shoola - Parinama Shoola -AnnadravaShoola- Atisara - Pravahika - Grahani - Gulma- Udara Roga.

2. Introduction to Anaha, Adhmana, Atopa, Visuchika Alasaka, Vilambika.

3. Introduction to Peptic Ulcer, Irritable Bowel Syndrome (IBS) Diarrhoea, Dysentry, Constipation, Inflammatory Bowel Diseases.

IX. Diseases of Udakavaha Srotas

1(a) Introduction to Trishna, Daha.

1(b) Introduction to water and electrolyte imbalance disorders.

X. Diseases of Mutravaha Srotas

1(a) Mutrakrichha - Mutraghata.

1(b) Introduction to Urinary Tract Infection, Nephropathies.

XI. Diseases of Swedavaha Srotas

1(a) Introduction to Khalitya, Palitya.

XII. Diseases of Manovaha Srotas

1(a) Apasmara, Unmada, Atatwabhinivesha-Vishada, Anidra, Mada, Murchha, Sanyasa.

1(b) Introduction to Epilepsy, Depression, Anxiety neurosis.

XIII. Upasargajanya Vyadhi (Communicable diseases)

1(a) Romantika - Masurika - Upadamsha - Phiranga.

1(b) Introduction to Measels, Chickenpox, Leprosy, Tuberculosis and AIDS.

XIV. Krimi Vigyana

1) Definition, classification of Krimi and features of Krimiroga

2) Snayuka, Shleepada.

3) Introduction of Filariasis and classification of common parasites.

PRACTICAL

(100 Marks)

i) Fundamental Principles of Laboratory Tests

Introduction to laboratory, Sterilization, glass wares, solutions reagents and safety procedures, Disposal of biomedical wastes.



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ii) Haematology

1 Haemoglobin estimation.

- 2 Blood cells counting WBC, RBC, platelets.
- 3 Hematocrit /Packed cell volume (PCV).
- 4 Erythrocyte indices MCV, MCH, MCHC.
- 5 Peripheral blood smear, staining technique and differential leucocyte count.
- 6 Peripheral blood film examination in Anemia, Leukemia, Malaria, Filaria (Demonstration).
- 7 ESR.
- 8 Screening test for bleeding disorders- bleeding time (BT), Clotting time (CT), Demonstration of Prothrombin time (PT).
- 9 Blood grouping ABO system, Rh typing (Rhesus system).

iii) Urine Examination

- 1. Ayurveda anusara mutrapariksha.
- 2. Physical Examination Volume, Reaction (Ph) & Specific Gravity.
- 3. Chemical Examination for Proteins, Glucose, Phosphate, Ketone, Bile salts, Bile pigment.
- 4. Dipstick examination
- 5. Demonstration of Microscopic Examination.

iv) Stool Examination

- 1 Ayurveda anusara purishapariksha.
- 2 Physical examination, Sama-Nirama Pariksha.
- 3 Microscopic examination of ova & cyst (Demonstration)
- 4 Occult Blood Test.

v) Demonstration of Sputum Examination

- 1 Ayurveda anusara sthivanapariksha.
- 2 Physical, Chemical and Microscopic Examination of the sputum.
- 3 Sample collection and Demonstration of AFB.

vi) Demonstration of Semen examination

- 1 Ayurveda anusara Retaspariksha.
- 2 Semen examination.

vii) Biochemical Examination - (Demonstration)

Blood Glucose, Serum Bilirubin, Blood Urea, Lipid Profile, Serum Creatinine, Serum Uric acid etc.

- viii) Demonstration of different staining techniques in microbiology.
- ix) Demonstration of Sero-immunological Investigations: RA and Widal.
- x) Laboratory record maintenance of laboratory record book.

Bed side Practical (Clinical Methods)

- 1. Introduction and demonstration of clinical methods (General and Systemic Examination).
- 2. Practical demonstration of examination of Roga based on Pancha Nidana.
- 3. Demonstration of instruments used for clinical examination.
- 4. Practical records of clinical examination of at least 20 long cases in I.P.D including Aturbala-pramana pareeksha.
- 5. Practical records of clinical examination of at least 20 short Cases based on Ashta vidha pariksha in O.P.D.
- 6. Demonstration of ECG, USG and Radio imaging techniques.

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Distribution of Marks for final Practical Examination

- 1. Daily Record -10 Marks
- 2. Indentification of Instruments -10 Marks
- 3. Laboratory Experiments -20 Marks
- 4. Short Case -10 Marks
- 5. Long Case -20 Marks
- 6. Viva Voce -30 Marks

Total 100 Marks

Reference Books

- 1. Madhava Nidana (Madhukosha Pt. Yadunandan Upadhyay Commentary) Part 1 2
- 2. Doshakaranatwa Mimamsa Acharya P.V. Sharma
- 3. Nadi Darshan Vd. Tara Shankar Mishra
- 4. Nadi Vigyana Vidyotini Hindi Tika
- 5. Nadi Vigyan- Shri Satya Dev Vashisht
- 6. Nadi Viqyan- Gangadhar Tika
- 7. Rogi Pariksha vidhi Acharya- Priyavrata Sharma
- 8. Ayurvediya Roga Vargikaran- Vd. Ramanath Dwivedi & Vd. Gurdip Singh.
- 9. Ayurvediya Nidan Eyum Chikitsa Ke Siddhanta Prof. Ram Harsh Singh.
- 10. Relevant portions of Charak Samhita, Sushrut Samhita and Vagbhata.
- 11. Text Book of Pathology- William Boyds.
- 12. Text Book of Pathology- Harsh Mohan.
- 13. Text Book of Pathology- Dey and Dey.
- 14. Text Book of Parasitology -Ramnik Sood.
- 15. Clinical Pathology and Bacteriology- S.P. Gupta.
- 16. Clinical methods in Ayurveda- K. R. S. Murthy.
- 17. Parameswarappa's Ayurvediya Vikriti Vigyan and Roga Vikriti Vigyan-Dr. P.S. Byadgi.
- 18. Oxford Handbook of Clinical Examination Oxford Handbooks and Practical Skills.
- 19. Advanced Clinical Evaluation System for Practical Assessment of Clinical Examination Skills.
- 20. Symptoms & Signs in Clinical Medicine Chamberlains.
- 21. Clinical Methods- Hutchison's.
- 22. Bedside Clinics in Medicine Part- I & II-Kundu.
- 23. Common Medical Symptoms- Mehta.
- 24. Advances in Pathology & Lab Med- Weimstean, Gralem, Anderson, Cortan, Wick, Zumwelt.
- 25. Clinical Laboratory medicine Edited by Kenneth D Mc. Chately.
- 26. General Pathology- Walter & Israel Churchill Living stone.
- 27. A Comprehensive Dictionary of Pathology- Chris Newann.
- 28. Practical Pathology- Dr. K. Uma Chaturvedi.
- 29 .Clinical examination- Douglas/Macleod's.
- 30. Pathology Practical book for Undergraduates- Harsh Mohan.
- 31. Medical Laboratory Technology R. Sood.
- 32. Clinical Diagnosis and Management by Todd, Sanford and Davidson Laboratory methods
- 33. Clinical Hematology In Medical Practice- Degruchy's.
- 34. Robbins Basic Pathology- Kumar, Abbas, Fausto at al.



3.2 SWASTHAVRITTA

Theory- Two papers - 100 marks each Practical / Viva voce -100 marks
Lectures -200 Hrs
Practicals and demonstration - 100 Hrs

Paper-I

PART A- VAIYAKTIKA SWASTHAVRITTA

50 marks

Introduction

Definition of swastha & swasthya and swasthavritta. Arogya lakshana, swasthavritta prayojanam, WHO definition of health. Dimensions of health-Physical, Mental, Social. Concept of wellbeing- objective, subjective, standard of living, quality of life.

Dinacharya

- 1. Definition of Dinacharya
- 2. Aims and importance of dinachary
- 3. Brahma Muhurta evam Utthana
- 4. Usha Jalapana
- 5. Sharirachinta
- 6. Malatyaga
- 7. Mukha prakshalan
- 8. Dantadhavana and preparation of Ayurvedic tooth powder and paste
- 9. Jihvanirlekhanavidhi
- 10. Anjana
- 11. Pratimarsha Nasya
- 12. Gandusha and Kavala
- 13. Tambulasevana
- 14. Dhoomapana
- 15. Abhyanga
- 16. Udvartana
- 17. Utsadana
- 18. Vyayama
- 19. Chankramana
- 20. Snana
- 21. Anulepana
- 22. Vastra dharana
- 23. Danda dharana
- 24. Padatra dharana
- 25. Chatra dharana
- 26. Ushnisha dharana
- 27. Ratnabharana dharana
- 28. Madhyahna charya
- 29. Cosmetic effect of Dinacharya procedures

Rathricharya

- 1. Sandhya charya
- 2. Rathri bhojana vidhi
- 3. Shayanavidhi according to Bhavamishra



Ritucharya

- 1. Importance of ritucharya
- 2. Ritu presentation as per different acharyas
- 3. Adana kala & visarga kala
- 4. Sanchaya-Prakopa-Prashamana of Dosha according to ritu
- 5. Doshashodhana in Ritu Charya
- 6. Relation of Agni bala and Ritu
- 7. Pathya and Apathya Ahara and Vihara in different ritus
- 8. a) Ritusandhi
 - b) Yamadamsthra
 - c) Rituharitaki
 - d) Rituviparyaya

Sadvritta

Description of Sadvritta and Achara Rasayana their role in Prevention and control of diseases.

Trayopastambha

i)Ahara Nirukti, Swarupa, Pramukhatva, Ahara dravya Vargikaranam, Aharavidhividhana, Dwadashashana pravicharana, Ashtaharvidhiviseshayatanani, Pathyahara, Apathyahara, Samashana, Adhyashana, Vishamashana, Ahara dushparinama & tajjanya vyadhaya, Santarpanajanya evam Apatarpanajanya vyadhi, Viruddhahara and its effects, Shadrasabhojanasya mahatwam.

Dietetic standards, Proximate principles of Food, Nutritional requirements, Sources and deficiency diseases of Protein, Carbohydrate, Fat, Vitamins and Minerals. Concept of balanced diet in Ayurveda, Nitya sevaneeya dravya, Balanced diet for different sections of people in the society, Social aspects of nutrition. Aharavarga - Dhanya varga(Cereals and millets), Shaka and Harita varga (Leafy and

Aharavarga - Dhanya varga(Cereals and millets), Shaka and Harita varga (Leafy and Non leafy vegatables), Kanda varga (roots and tubers), Phala varga (Fruits), Taila varga(Fats and Oils), Ikshu varga & Madhya varga(Alcoholic Beverages), Dugdha varga (Milk and Milk products), Masala and vyanjana dravyas (Spices & Condiments), Kritanna varga(Prepared Food), Mamsa varga (Meat types).

Food hygiene

Milk hygiene-Milk composition, Source of infection (for Milk), Milk borne diseases, Clean and Safe milk, Pasteurization of milk.

Meat hygiene-Meat inspection, Slaughter house, Freshness of fish and egg. Fruits and Vegetables hygiene

Sanitation of eating places, Preservation of food, Food handlers, Food borne diseases, Food fortification, and Food adulteration, Food toxicants, Properties of Vegetarian and Non- vegetarian diet, Effects of spices and condiments

Consumption of Alcohol and its effects on personal and social health. Effects of pathya-apathya in life style disorders-Diabetes, Hypertension, Obesity and Coronary heart Disease.

- **ii) Nidra-** Nirukti and Utpatti, Types , Nidra Swasthya sambandha, Properties of Yukta Nidra, Effects of Ratri Jagarana, Diwaswapna, Anidra, Atinidra, Ahara and Vihara causing disturbed sleep , Ahara and Vihara Causing sound sleep. Duration of sleep according to age, Sleep in healthy and diseased persons.
- iii) Brahmacharya Brahmacharya and Abrahmacharya, Importance of Bharmacharya and Abrahmacharya, Vyavaya sambandhi niyama, Effects of



Ativyavaya. Methods of Virya Raksha, Surataspriha(Libido) through Vajikarana, Viryanasa phala.

Roganutpadaniya- Concept of Vega- Adharaniya Vega and Dharaneeya Vega, Diseases due to vegadharana and their chikitsa, sharir shodhan.

Rasayana for Swastha-Nirukti, paribhasha(definition), classification and examples

Ashta nindita purusha

Menstrual hygiene

Part B (YOGA AND NISARGOPACHARA)

50 marks

YOGA

Introduction

Yoga shabda utpatti, definitions, Different schools of Yoga - Rajayoga, Hathayoga, Mantrayoga, Layayoga, Jnanayoga, Karmayoga, Bhaktiyoga. Yoga prayojana Ayurveda yoga sambandha, swasthya rakshane yogasya mahatvam Yogabhyasa pratibhandhaka & siddhikara bhavas as per Hathayoga. Mitahara and Pathyapathyani during Yogabhyasa.

Panchakosha Theory

Astanga yoga

Yama, Niyama Asana and its importance

Standing Postures

Ardhakatichakrasana, Padahastasana, Ardhachakrasana, Trikonasana.

Sitting postures

Swasthika, Gomukhasana, Padmasana, Vajrasana, Bhadrasana, Shashankasana, Ushtrasana, Pashchimottanasana, Suptavajrasana, ardhamatsyendrasana, Siddhasana.

Supine Postures

Pavanamuktasana, Sarvangasana, Matsyasana, Halasana, Chakrasana, Shavasana, Setubandhasana.

Prone postures

Bhujangasana, Shalbhasana, Dhanurasana, Makarasana.

Suryanamaskara - procedure and benefits.

Pranayama

Benefits of pranayama, time of practice, avara-pravara-madhyama lakshana, yuktaayukta lakshana Nadishudhi Pranayama . Kumbhakabheda – suryabhedana, ujjayi, sheetali, Sitkari, Bhastrika, Bhramari Murcha, Plavini. Nadishudhilakshana

Shatkarma

Dhauti, Basti, Neti, Trataka, Nauli, Kapalabhati

Bandhas and Mudras

Shad chakras, Ida-pingala-sushumna nadis.

Pratyahara, Dharana, Dhyana, Samadhi

Description of Yoga in Ayurveda

Moksha and Muktatma lakshana and upaya, Naishthiki chikitsa, Satyabuddhi, Tatvasmriti, Ashta Aishwarya, Ashta siddhis.

NISARGOPACHARA (Prakritika chikitsa)

Definition, history, aims and objectives

Theories as per Western school of Naturopathy

Indian school - Panchabhutopasana

Relation of Ayurveda and Naturopathy

Importance of Naturopathy in present era.

Jalachikitsa(hydrotherapy) - Hot water treatment, Cold water treatment, foot and arm bath, Spinal bath, hip bath, abdominal wet pack, Steam bath, enema and whirl pool bath.

Mrittika chikitsa (Mud therapy)

Types of soil, doctrine of mud selection, mud bath.

Suryakirana sevana (sun bath - heliotherapy)

Mardana (Massage) – different methods and effects.

Diet types – Soothing, Elimininative, Constructive, Positive and negative diet,

Acidic and alkaline diet

Upavasa chikitsa(Fasting therapy) - Importance, types, therapeutic effects of fasting.

Visrama chikitsa upayoga

PAPER II - SAMAJIKA SWASTHAVRITTA

50 marks Part A

Janapadodhwamsa

Causes, Manifestations and control measures, importance of Panchakarma and Rasayana.

Vayu (Air)

Vayu guna according to sushruta samhita, Properties of Vayu as per different directions, Vayu shudhi prakara - Ayurvedic aspect.

Composition of air.

Air of occupied room- Thermal discomfort and comfort zone, indices of thermal comfort. Air pollution - health and social aspects, Prevention and control of air pollution , Global warming.

Ventilation and its types.

Mountain air & High altitude - Health problems

Jala (Ayurvedic and modern aspects)

Importance of water , safe and wholesome water, water requirements, properties, types and sources of water, water pollution and health hazards, Methods of water purification. Hardness of Water.

Examination, Tests and analysis of water.

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Rain water harvesting and water recycling

Bhumi and nivasa sthana(Land and housing)

Types of soil, soil & health, Land pollution, Bhumi shodhana, Nivasa yogya bhoomi, Social goals of housing, Housing standards, Mahanasa (Kitchen) standards, Rural housing, Housing and health, Overcrowding.

Prakasha(lighting)

Requirement of good lighting, natural lighting, artificial lighting, biological effects of lighting.

Dhwani pradooshana(Noise pollution) -Noise, Sources, effects,& control Vikirana(Radiation) - sources, effects and control

Apadravya Nirmulana (Disposal of solid waste)

Different types of solid waste Storage and collection of refuse Methods of disposal of solid waste (Rural & urban) Bio-medical waste management

Malanishkasana Vyavastha (Excreta Disposal)

Methods for Unsewered area and Sewered area Latrines for camps, fairs and festivals

Disposal of dead body - Burial, Burning, Electric cremation.

Meteorology (Ritu evam Vatavarana jnanam)

Definition of weather and climate, factors influencing weather and climate.

Disaster management

Definition, natural and man-made disasters, epidemiologic surveillance and disease control.

Occupational Health

Occupational Hazards, Occupational Diseases, Prevention of Occupational Diseases, Health & precautionary measures, ESI Act, Indian factories Act.

Offensive Trades- Effects on health and precautionary measures .

School health services

Health problems of school children, aspects of school health service, duties of school medical officers, Maintenance of healthy environment

Epidemiology

Concept of Epidemiology, Dynamics of disease transmission, concept of diseases, concept of causation, Epidemiological triad, natural history of disease, concept of control, concept of prevention, Risks factor, modes of intervention, incidence and prevalence. Susceptible host, host defenses, Immunizing Agents, Disease prevention and control, investigation of epidemic.

Disinfection - definition, types.

Ayurvedic concept of Vyadhikshamatva and sankramaka rogas.

Epidemiology of communicable Diseases

Chicken Pox, Measles, Diphtheria, Pertussis, Mumps, Tuberculosis, SARS, Influenza, Pneumonia, Cholera, Polio, Viral Hepatitis , Typhoid, Leptospirosis, Dengue Fever, Chikungunia, Malaria, Filariasis , Leprosy, Rabies , Tetanus, Emerging and re-emerging diseases

Kuprasangaja vyadhi (STDs) AIDS, Syphilis, Gonorrhoea, Chanchroid

Non-communicable disease epidemiology

Diabetes, Obesity, Hypertension, Coronary Heart Diseases, Rheumatic Heart Disease, Cancer

Chikitsalaya Bhavana (Hospital Building)

50marks Part B

Prathamika swasthya samrakshana(Primary Health Care) Definition, principle, elements, levels of health care. Structure at village, sub centre, PHC,CHC, Rural hospital levels. Health insurance, Private agencies, Voluntary health agencies, NGOs and AYUSH sector. Role of Ayurveda in Primary Health Care.

Parivara kalyana Yojana (Family welfare Programmes) - Demography, demographic cycle, life expectancy. Family planning, methods of family planning.

Matru sishu kalyana Yojana – MCH programme

Ante natal, intra natal, post natal, neo natal care. Child health problems and indicators of MCH care.

Preventive geriatrics-Problems of elderly, prevention and control measures.

World Health Organisation-Objectives, structure and functions. International health agencies-United Nations agencies, Health work of bilateral agencies.

Alma Ata declaration **National Health Policy**

Health statistics- Definition, Sources, uses Data collection, Classification, Presentation. Vital statistics-Morbidity rates, Mortality rates, Fertility rates. Health survey

Swasthya prashasana (Health Administration) - Health administration at Central including AYUSH, state, district, village levels.

National health programmes

Tuberculosis(RNTCP), Leprosy(NLEP), AIDS (NACP), Blindness (NPCB), Polio(PPI), Diabetes (NDCP), Cancer (NCCP), Guinea worm, Vector born disease control programme, NRHM, all the upcoming national health programmes, RCH programme, Universal Immunization Programme.

National Nutritional Programmes - IDD, Vitamin A prophylaxis, Mid day meal, anemia control programmes.

PRACTICALS

Demonstration of Dinacharya procedures- anjana, nasya, kavala, gandoosha dhoomapana, abhyanga, udvarttana.

Parichaya of aharadravya, immunization agents, disinfectants and family planning devices

Practical demonstrations of Asanas mentioned in the syllabus Pranayama (Suryabhedana, Ujjayi, Shitali, Sitkari, Bhastrika, Bhramari and Nadishuddhi) and Shad karmas(Jala dhauti, Jalaneti, Sutraneti, Trataka, Kapalabhati).

Preparing and delivering of a health educational talk on health related issues. A short compilation on any topic on environmental health.

Educational Visits

Observe the functioning of the Milk Dairy, Water purification unit, Sewage treatment unit, MCH/Family welfare centre, Leprosy hospital and industraial unit.

Visit to Primary Health Centre for knowledge of actual implementation of National health programmes including knowledge of rural health.

Visit of rural Ayurvedic dispensary.

Visit to naturopathy centre to observe naturopathic treatment modalities.

Health survey- Minimum 5 families of rural and urban areas.

There should be 3 case sheets for Yoga Naturopathy & pathya apathya together and 3 case sheets for communicable diseases.

Proformas for Case sheets/practical records/survey/Dinacharya projects etc should be prepared by the respective universities.

Practical and Viva Voce examination

na Ladiation	100 marks
Marks distribution	20
1. Vaiyaktika Swasthavritta	20
2. Samajik swasthavritta	
3. Demonstration of Yoga	10
4. Naturopathy	10
4. Naturopatry	10
Journal and compilation work	30
6. Viva voce	30

Reference Books:

Relevant portions of Charaka, Sushruta, Vagbhata, Sarngadhara, Bhavaprakasha, Yogaratnakara, Madhavanidana and Bhelasamhita.

Swasthavritta Samucchaya
Swasthya Vigyan
Swasthya Vigyan
Swasthavritta
Swasthavritta
Ayurveda Hitopadesh
Yoga and Ayurved
Swasthavritta vigyan
Swasthavrittam

- Pandit Rajeshwar dutt Shastri
- Dr. Bhaskar Govind Ghanekar - Dr. Mukund swarup Varma
- Vaidya Sakad
- Dr. Ranade and Dr. Firke
- Vaidya Ranjit Rai Desai
- Acharya Rajkumar Jain
- Dr. Ramharsha Singh
- Dr.Brahmanand Tripathi

Swasthavrittam
Ayurvediya Swasthavritta
Patanjala yogasutra
Hathayogapradipika
Gheranda samhita
Yoga Paddhati
Yogik Chikitsa
Sachitra Yogasan darshika

Yoga deepika Light on Yoga Light on Pranayama Yoga and yoga chikitsa

Foundations of Contemporary Yoga Yoga Sidhant evam Sadhana

Prakritik chikitsa Vidhi Prakritik chikitsa vigyan

Preventive and Social Medicine Preventive and Social Medicine Janasankhya Shiksha Sidhanta

Evam upadesya

Health Administration in India Health and family welfare

Positive Health

Biogenic Secrets of food in Ayurveda

Smriti granthon mein nihit Swasthaprakara samagri

Dr. Reddy's comprehensive guide

to Swasthavritta

Nutritive value of Indian foods

Yoga and Nisargopachar

Prachin Vangmay mein prakritic chikitsa

Swasthavritta
Food and nutrition

Organology and sensology in yoga

Yoga-A game for Women

- Dr. Shivkumar Gaud

- Vaidya Jalukar Shastri

- Patanjali Maharshi

- Swatmaram Yogendra

- Gherand Muni

- Bharatiya Prakritik Chikitsa Parishad

- Shri. Kedar Nath Gupta - Dr. Indramohan Jha

- Shri. B.K.S. Iyengar

- Shri. B.K.S. Iyengar

- Shri. B.K.S. Iyengar

- Dr. Ramharsha Singh

- Dr. Ramharsha Singh

- Harikrishna Shastri datar

- Sharan Prasad

- Verma

- J. Park

- Baride and kulkarni

- Dr. Nirmal Sahani

- S.C.Seel

- T.L.Devaraj

- L.P. Gupta

- L.P.Gupta

- Dr. Smt. Nigam Sharma

- Dr.P.sudhakar Reddy

- ICMR

- Vd. Prama Joshi

- swami Anant Bharati, CCRYN

- Vd Yashwant Patil and Vd. Vhawal

- Swaminathan

-Prashant S Iyengar

-Geeta S Iyengar

Yoga-A game for Women(hindi translation)-Madhu Pandey

3.3 PRASUTI TANTRA & STRIROGA

Marks 200 (100marks each paper)
Practical-100 marks
HOURS Theory-200 Hrs
Practical-100 Hrs

PAPER-1 PRASUTI TANTRA

PART-A

INTRODUCTION TO SUBJECT

STRI SHARIRAVIJNAN

Etymological origin of the word Stri. Artava vaha and Stanyavaha strotamsi. Tryavarta yoni Stri Vishishta,Peshi Marmani.

Anatomy of female reproductive system.(External and internal genital organs) Soft & Bony Pelvis and its obstetrical importance.

DESIRABLE (non detail)

Vayobhedena Stri sangnya

RAJO VIGYANA

Description of Raja, Artava and Prathama Rajo Darshana, Rajasvala Charya. Ritumati Lakshana, Ritumaticharya, Ritukala

Menarche, Menstrual cycle and their regulation by endocrine glands,

Ovulation -Importance in conception

DESIRABLE (non detail)

Concept of Stri Sukra

GARBHA VIGYANA

a) Garbhasya paribhasha, Garbhadhanavidhi, Garbhavakranti, Garbha Sambhava samagri, Garbhakara bhava, Panchabhautikatwa of Garbha, Masanumasika Vridhi of Garbha, Garbha Poshana, Garbhasayasthe Garbhasthiti

Foetal attitude, lie, position, presentation

b) Apara, GarbhaNabhinadi, Jarayu, Ulba

Formation, Development, Function of Placenta, Umbilical cord, Amniotic fluid

Foetal membranes -Abnormalities of Placenta

DESIRABLE (non detail)

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Garbhalingotpatti, Garbhasya Avayavotpatti, Garbha Varnotpatti, Garbha Vikriti

GARBHINI VIGYANA

- a) Lakshana of Sadhyograhita Garbha, Lakshana of Vyakta Garbha, Pumsavana vidhi Diagnosis of Pregnancy
- b) Garbhini vyavastha: Garbhini Paricharya, Garbha Upaghatakara Bhava, Dauhrida Ante Natal care-Examination, Investigation and Management
- c) Garbha Vyapada: Nidana, Samprapthy and Chikitsa Garbhasrava and Garbhapata-Garbha shosha-Upavishtaka, Nagodara, Upashushka, Leena garbha,
 Antarmrita garbha, Raktagulma, Bahugarbhatha
- d) Abortions, Rh-incompatability Causes, clinical features, complications and management.

Gestational trophablastic neoplasias, Ectopic pregnancy, IUGR, Intrauterine foetal death, Multiple pregnancy

GARBHINI VYAPAD

- a) Hrillasa, Chardi, Aruchi,Atisara, Vibandha, Arsa, Udavarta, Sotha, Parikarthika, Vaivarnya, Kandu, Kikkisa, Pandu, and Kamala, makkala
- b) Common ailments of Pregnancy-High Risk Pregnancy, Emesis gravid arum, Gestational Anemia, Gestational Hypertension, Gestational Diabetes, Toxemias of Pregnancy, Jaundice, AIDS,

Ante Partum Hemorrhage causes, clinical features complications and Management

PART B

PRASAVA VIGYANA

- a) Prasava Paribhasha,Prasavahetu,Prasavkaala, Sutikagaranirmana, Sangrahaniya Dravyani, Sutikagara praveshavidhi.
- b) Prasavavastha; Prajayani/ Upasthita Prasava/ Asannaprasava lakshana, Aavi. Prasavaparicharya, Jatamatraparicharya
- c) Normal Labour:-Definition of Labour, Physiology & Mechanism of Labour, Monitoring of Labour and management, Pictogram, Episiotomy, care and resuscitation of newborn.



PRASAVA VYAPAD

- a) Garbhasanga, Yonisamvarana, Aparasanga, Mudagarbha-defenition, Nidana, Types & Management
- b) Induction and augmentation of labour, Cervical dystocia, Cephalopelvic disproportion, Prolonged labour, Preterm labour, Post term labour, foetal distress, Assisted Labour, Caesarian
- c) Retention of Placenta, PPH causes, clinical features and management, Genital tract Injuries during labour

DESIRABLE (non detail)
Uterine Inversion, Amniotic Fluid Embolism, Garbhasthithi parivarthan(Version), Forceps Delivery, Ventouse Delivery.

SUTIKA VIGYANA

 a) Sutika Paribhasha, Sutika Kaal, Sutika paricharya. Changes during sootika avastha(Sareerika&Manasika)

Normal and abnormal Puerperium and its Management

- b) Sutika Roga Number of Sutika Roga, Sutika Jwara, Shotha and Makkala.
- c) Stanyavijnan- Sthanyadushti, Sthanyakshaya, Sthanyavridhi -their causes, clinical features and treatment
- d) Emergency care in obstetrics

DESIRABLE(non detail)Stana stanya -Pareeksha,Stanya sampat.

PART-2 STRI ROGA

PART-A

ARTAVA VYAPAD

- a) Artava-kshaya vridhi, Ashtartavadushti lakshana chikitsa
 Asrigdara lakshana samprapti Chikitsa
- b) Menstrual disorders-Amenorrhoea, hypomenorrhoea, Oligomenorrhoea, Dysmenorrhoea, Abnormal uterine Bleeding

YONI VYAPAD

Sankhya, Nidana, Lakshana, Upadrava evam Chikitsa

Endometriosis, Fibroid uterus, Genital Prolapses, Retroverted Uterus, Pelvic infections, Cervical erosion, Pelvic Inflammatory Diseases

VANDHYATWA – Prakar, Nidana , Chikitsa Infertility – Causes, Types, Investigations and Management.

Yoni Kanda, Yoni Arsa, Granthi, Arbud,

Pelvic Infections including Sexually Transmitted Infections, HIV, AIDS, Preventive measures.

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MENOPAUSE-changes during menopause ,menopause syndrome, management.

DESIRABLE (non detail) Congenital malformations of female genital tract. Sukra vijnan -kshaya ,vridhi,dushti hetu lakshana and chikitsa Benign and Malignant tumours of Genital Tract

PART-B

STANA ROGA

- a) Stanakeela- nidana lakshana chikitsa, Stanagranthi, Stanavidradhi, Stanashoph Mastitis, Breast abscess, Galactocele -Etiopathology, clinicalfeatures, diagnosis, prognosis and complications
- b) Sthanik Chikitsa Snehana, Swedana, Uttarabasti, Pichu, Varti, Lepana, Dhupana, Dhavana, Dahana, Ksharakarma -. Practical knowledge of all these procedures along with indications, complications and management.

Shastra Karma

Surgical procedures their Indications, Contraindications of cauterization of cervix, cervical dilatation and curettage, female surgical sterilization

Knowledge of indication and procedure of PAP smear. Endometrial biopsy and interpretation of the reports

Stri roga Sambandhita Pramukha Aushadhyai, Prasuti & Stri Roga Chikitsa Upayogi Yantra Shastra Parichaya and Vyadhivinischaya Upaya (Investigative and Diagnostic Aids)

Garbhanirodhaka Upaya.

Parivar Niyojana, Reproductive and Child Health Care, AIDS/HIV control Programme, MCH, PNDT Act, MTP Act, and importance of current National Programme

Knowledge of important Commonly used Ayurvedic and Allopathic drugs used in Prasutitantra and Streeroga. Pharmacotherapuetics of allopathic drugs in obstetrics and Gynaecology

Record keeping, ethical and medicolegal issues in Streeroga and prasutitantra

DESIRABLE (non detail)

Laproscopy, hysteroscopy, hysterosalphingography, USG, X-RAY, Colposcopy, Cervical Biopsy. Granthi evum Granthi nirharan samanyajnan(Myomectomy, hysterectomy)



CLINICAL TRAINING-OBSTETRIC SKILLS

To perform independently

- 1. History taking and examination of antenatal and gynaecological cases
- 2. Diagnosis of Pregnancy, assessing of gestational period, to diagnose onset of labour
- 3. To monitor labour progress, able to plot Partogram
- 4. Observation of 10 labour
- 5. To diagnose abnormalities of labour and decide about the referral of the patient
- 6. Able to provide first aid for obstetric emergencies
- 7. Recognition of post partum complications
- 8. Councelling and promoting of breast feeding
- 9. Record 5 antenatal cases, 5 intrapatum, 5 post partum cases

To observe/assist-D&C, D&E, Caesarean section, Repair operations, Resuscitation of new born.

GYNAECOLOGICAL SKILLS -To perform independently

- 1. History taking and examination of gynaecological cases
- 2.Recording 10 gynaecological cases, 5 gynaecological procedures
- 3. Taking vaginal smear, high vaginal swab
- 4.Practical knowledge of sthanika chikitsa
- 5. Observation and practical knowledge of minor gynaecological procedures
- 6.Observation of Surgical procedures
- 7. Identification, uses., Demonstration of surgical instruments
- 8. Observation of Method of sterilization, MTP, Surgical procedures Hystrectomy, Oopherctomy

DISTRIBUTION OF PRACTICAL MARKS

- 1.Case taking-2cases -one Gynec,one obstetric- 30marks
- 2.Instruments ,Drugs, &Models-
- 3.General Viva-
- 4.Record -2-(one Prasuti, one streerog)-**Total**

20 marks

40 marks 10 marks

100 marks

3.4. Kaumarbhritya (Ayurvedic Pediatrics)

Theory One Paper - 100 Marks Practical Viva Voce - 50 Marks

Paper I

100 Marks

Kaumarbhritya Parichaya Evum Balaka Paricharya (Introduction to Ayurvedic Pediatrics and Child Care)

Part A

50 Marks

- General introduction and scope of Kaumarbhritya (Ayurvedic Pediatrics), Definitions and terminologies used in Kaumarbhritya.
- 2. Scientific contribution of Kashyapa Samhita in Kaumarbhritya.
- 3. Vayobheda (Classification of age): Garbha, Bala, Kumara; Kshirada, Kshirannada & Annada etc. and modern classification of childhood period.
- 4. Prana Pratyagamanam (Neonatal Resuscitation): Methodology; complications and their management (Ayurvedic and modern view). Assessment of gestational age.
- 5. Navajata Shishu Paricharya (Neonatal Care): Care of the Jatmatra (Newly born child) and the Sadyojata, Care of the Samaya-purvajata Shishu (Preterm), Purnakalika Shishu (Full term), and Samaya-Paschatjata Shishu (Post term neonate), Nabhinala Chhedana (Cutting of umbilical cord), Complications of improper cutting of umbilical cord and its treatment, Rakshoghna Karma (Protective measures- Ayurvedic and modern view).
- 6. Navajata Shishu Parikshana (Examination of newborn): Ayu-Parikshana, Modern approach to Neonatal Examination
- 7. Navajat Shishu Poshana (infant feeding): Specific feeding schedule as per Ayurvedic texts and modern concept; Stanya-Sampat (Properties of normal breast milk) Stanyotpatti (Physiology of lactation), Stanya Sangathana (Composition of breast milk), Stanya Parikshana (Examination of breast milk), Stanya-Piyusha (Colostrum); Stanya-Pana-Vidhi (Techniques of breast feeding), Stanyakshaya-Stanyanasha (Inadequate production and absence of breast milk), Dhatri (wet nurse)- Stanyabhave dugdh Vyavastha (alternative feeding in the absence of breast milk), Various other milk feeding methods.
- 8. Stanyadosha (Vitiation of Breast milk), Stanya Shodhana (Purification of breast milk), Stanya Janana and Vardhanopakrama (Methods to enhance breast milk formation).
- Garbha Vridhi Vikasa Krama: Samanya Parichaya (brief monthwise development of fetus), Milestones of development during infancy and childhood including concepts of various Samskaras.
- 10. Poshana (Nutrition): Normal requirements of nutrients and common food sources.
- 11. Dantotpatti evum Danta Raksha Vidhi (Dentition and dental care): Danta-sampat (Characteristics of healthy teeth), Danta Nisheka evum Dantodbheda (Eruption of teeth), Dantodbhedjanya Vikara (Dentition disorders).

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- 12. Vyadhikshamatva: General concepts of Bala (Immunity) and methods of Bala Vriddhi.
- 13. Prashan & Lehana: Indications, contra-indications, different drugs used in lehana
- 14. Knowledge of National Programs related to Child Health Care: Reproductive and Child Health (RCH) Program, Community Child Health Programs, Nutritional Programs, National Immunization Program and other programs incorporated by Govt. of India from time to time

Part B 50 Marks

Samanya Chikitsa Siddhanta and Balaroga (General Principles of Treatment and Management of Pediatric Disorders)

- Bala Pariksha-vidhi Evam Shishu Vedana Parigyan (Examination of sick child and Diagnostic methods-Ayurvedic and modern). Samanya Chikitsa Siddhanta (General principles of treatment in children).
- 2. General Aushadhl Matra Nirdharana for Ayurvedic and modern drugs preparations (drug doses according to age, weight and drug contents)
- 3. Specific therapeutic panchakarma procedures in children with special emphases on snehan, swedan and basti.
- 4. Prasava Kaleena Abhighata (Birth injuries): Shwasavrodha (Asphyxia neonatorum), Ulvaka, Upashirshaka (Caput Succidanum and Cephalohaematoma), Facial Paralysis, Erb's Paralysis, Bhagna (fractures).
- 5. Brief description of Sahajavyadhi (Congenital disorders): Sahaja Hridaya Vikara (Congenital Cardiac Disorders) Jalashirshaka (Hydrocephalus), Khandaoushtha (cleft lip), Khanda-Talu (cleft palate) Sanniruddha Guda (Anal stricture / imperforated anus), Pada Vikriti (Talipes equanovarus and valgus), Spina bifida, Meningocele, Meningomyelocele.
- 6. Brief knowledge of genetic disorders): Down syndrome, Turner Syndrome, Muscular dystrophy, Sickle-Cell Anemia, Thalassaemia, Sahaja Madhumeha (Juvenile diabetes).
- Prasavottara Vyadhi (Neonatal disorders): Navajata Kamala (Neonatal Jaundice), Navajata Netrabhishyanda (Neonatal conjunctivitis), Nabhiroga (Umbilical disorders), Navajatshishu-raktavishmayata (Neonatal Septicemia)
- 8. Dushta Stanyapanajanya Vyadhi (Disorders due to Vitiated Milk): Lactose intolerance, Kshiralasaka, Kukunaka, Ahiputana (Napkin Rashes)
- 9. Kuposhanajanya Vyadhi (Nutritional disorders): Karshya, Phakka, Balashosha and Parigarbhika (Protein Energy Malnutrition), Vitamin and Micro-nutrient deficiency disorders, Hyper-vitaminosis, failure to thrive.
- 10. Aupasargika Vyadhi (Infectious Diseases): Karnamula Shotha (Mumps), Romantika (Measles), Rubella, Masurika (Chicken Pox), Rohini (Diphtheria), Kukkura-Kasa (Whooping Cough), Dhanurvata (Tetanus), Krimiroga (Worm Infestations), Antrika Jwara (Typhoid), Mastisakavarnashotha (Meningitis), AIDS, Dengue, Malaria, Rajayakshma (Tuberculosis), Jivanujanya Yakrit Shotha (Hepatitis)



- 1. Srotas Vikara:
- a) Pranavaha Srotas: Pratishyaya (common cold), Kasa (Cough), Shwasa (Respiratory distress syndrome), Tamaka Shwasa (Bronchial Asthma), Utphuliika, Swasanaka Jwara (Pneumonia/Pneumonitis, Bronchiolitis), Gala shotha (Pharyngitis, Laryngitis), Talukantaka(Tonsillitis)
 - b) Annavaha_ Srotas: Ajirna (Indigestion), Atisara (Diarrhoea), Chhardi (Vomiting), Vibandha (Constipation), Mukhapaka (Stomatitis), Gudapaka (Proctitis), Parikartika (Anal fissure), Udarshula (Infantile Colic), Pravahika (Dysentry), Gudabhransa (Rectal Prolapse). Ama and its disorders like Ama vata jwara (Rheumatic fever).
 - c) Rasavaha Srotas: Jwara (Fever), Pandu (Anemia), Mridbhakshanajanya Pandu with clay eating/Pica). associated
 - d) Raktavaha Srotas: Kamala (Jaundice), Raktapitta (Haemorrhagic disorders), Yakritodara (Hepatomegaly).and Pieehodara (Spleenomegaly)
 - e) Mamsa-Medovaha Srotas: Apachi (Lymphadenitis), Galaganda (Goitre), Lymphadenopathy). Gandamala (Cervical
 - f) Mutravaha Srotas: Shopha in Vrikka (Glomerulonephritis and Nephrotic syndrome)
- 2. Anya Bala Vikara (Miscellaneous Pediatric Disorders), Apasmara (Epilepsy), Akshepa (Convulsions), Nirudhaprakasha (Phimosis), Cerebral palsy.
- 3. Behavioral Disorders of Children, their management and counseling: Breath holding spell, Shayyamutra (Bed wetting), Pica, Unmada, Autism, ADHD (Attention Deficit and Hyperactive Disorders), Jadatwa (Mental retardation).
- 4. Pran raksha vidhi (Life saving measures in children): Principles of management of Shock and Anaphylaxis, Poisoning, Foreign body in respiratory tract, Status epilepticus, Hemorrhage, Acute Renal Failure, Febrile Convulsion, Status Asthmaticus, Fluid and Electrolyte Management.
- 5. Balagraha: General description, classification, clinical features and management.

PRACTICAL

Content of Practical / demonstration

- 1. Clinical training of above mentioned disorders of children.
- 2. Exposure to
 - a) Navajata Shishu Paricharya (Care of the newborn)
 - b) Pranapratyagamana Vidhi (Resuscitation procedure of new born)
 - c) Vaccination
 - d) Panchakarma Vidhi (Panchakarma procedures) especially Snehan, Swedana, Basti.
- 3. Knowledge of various equipments such as phototherapy unit, overhead radiant warmer, resuscitation equipments, Panchakarma equipments and their application
- 4. Knowledge of IV fluid administration, blood sampling
- 5. Anthropometry measurements and their interpretation
- 6. Various Ayurvedic & modern Procedures and investigations in pediatric practice



Distribution of Marks

Clinical work: Pediatric and neonatal case records [1.0 case sheets of each] Patient Examination

10 Marks 20 Marks

Spotting

05 Marks

Viva – voce

15 Marks

Total

50 Marks

Reference Books

- Kashyapa Samhita Complete Hindi translation by Satyapal Vidhyalankara English translation by Prof. Premvati Tiwari
- 2. Principles & practice of Pediatrics in Ayurveda: Dr. CHS Shastry
- 3. Child Health Care in Ayurveda: Prof. Abhimanyu Kumar
- 4. Ayurvedic Concepts of human Embryology: Prof. Abhimanyu Kumar
- 5. Kaumarbhritya by Prof. D.N. Mishra
- 6. Kaumarbhritya Ke Antargata Balgraho Ka Kramika Evam Vaigyanika Adhyana by Prof. Chanchal Sharma
- 7. Notes on Kaumarbhritya-by Dr. Dinesh K S
- 8. Pran Pratyagannanann-by Dr. B.M. Singh
- 9. Ayurveda Dwara Matra Evam Shishu Paricharya by Dr. KS Patel, V.K. Kori & Raigopal
- 10. Kaumarbhritya related references from Charaka Samhita, Sushruta Samhita Vagbhata etc.
- 11. Clinical Methods in Paediatrics by Meharban Singh
- 12. Pediatrics Emergencies by Meharban Singh
- 13. Essential Pediatrics 0,P. Ghai
- 14. Text Book of Pediatrics Nelson
- 15. Care of New Born by Meharban Singh
- 16. Panchakarma in Pediatrics Dr. Yogita Srivas

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3.5. CHARAK SAMHITA- UTTARARDHA

(Uttarardha: Chikitsa - Kalpa - Siddhi Sthana)

Theory- One Paper - 100 Marks

The marks of theory examination are distributed as follows:

1. Chikitsa sthana

60 Marks

2. Kalpa sthana

15 Marks

3. Siddhi sthana

25 Marks

Reference Books

1. Charak Samhita - Chakrapani Tika (Sanskrit Commentary)

2. Charak Samhita (Hindi Commentary) Vd. Jayadev Vidyalankar or Vd. Atridev Vidyalankar or Prof. Gorakh Nath Chaturvedi & Kashinath Shastri or Dr. Brahmanand Tripathy or Dr. Ravidutta Tripathy

3. Charak Samhita (English Commentary): Dr. Ram Karan Sharma & Vd. Bhagwan Dash or Acharya Priyavrata Sharma.

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- c. Mode
- 5. Variability and its measurement
 - a. Range
 - b. Standard deviation
 - c. Standard error
- 6. Introduction to probability and test of significance
- 7. Parametric and non parametric tests
- 8. Introduction to commonly used statistical soft-wares.

Reference books for Research methodology:

- Dawson, Catherine, 2002, Practical Research Methods, New Delhi, UBS Publishers' Distributors
- 2. Kothari, C.R.,1985, Research Methodology-Methods and Techniques, New Delhi, Wiley Eastern Limited.
- 3. Kumar, Ranjit, 2005, Research Methodology-A Step-by-Step Guide for Beginners, (2nd.ed), Singapore, Pearson Education
- 4. Students guide to research methodology Undergraduates. Alexandria Medical Students Association.
- 5. Health research methodology. A guide for training in research methods. 2nd edition. Manila, World Health Organization Regional Office for the Western Pacific, 2001.

Reference Books for statistics:

- 1. Health research methodology. A guide for training in research methods. 2nd edition. Manila, World Health Organization Regional Office for the Western Pacific, 2001.
- 2. Statistical methods in medical research. P.Armitage (Ed) Oxoford Blackwell
- 3. Statistical methods . Snedecor GW and Cochran, WG
- 4. Altman, D. G. (1991). Practical statistics for medical research. London: ChapmanPrinciples of Medical Statistics by A. Bradford Hill
- 5. Interpretation and Uses of Medical Statistics by Leslie E Daly, Geoffrey J Bourke, James MC Gilvray.
- 6. Research in Ayurveda-M S Baghel
- 7. research methodlogy in ayurveda-V.J.Thakar, Gujarat Ayurved University
- 8. Ayurveda anusandhan paddhati-P.V.Sharma
- 9.Research methodology methods and statistical techniques- Santosh Gupta. Greenhouse SW.
- 10. The growth and future of biostatistics: (A view from the 1980s). Statistics in Medicine 2003; 22:3323–3335.
- 11.Knapp GR & Miller MC. Clinical epidemiology and Biostatistics, NMS series Antonisamy B, Christopher S & Samuel PP. Biostatistics: Principles and practice
- 12. Sundara Rao PSS & Richard J. An introduction to Biostatistics, PHI
- 13.Senn S (1997). Statistical Issues in Drug Development. Chichester: John Wiley & Sons.
- 14. Methods in Bio-statistics for Medical Students- BK Mahajan
- 15. Vaidyakeeya Sankhiki Shastra- Dr.S.S. Savrikar



DETAILED SYLLABI OF THE COURSES AND RESEARCH PROGRAMMES TO BE CONDUCTED

NATIONAL INSTITUTE OF AYURVEDA MADHAV VILAS PALACE, JORAWAR SINGH GATE AMBER ROAD, JAIPUR 302002

1. Course Title: PG Diploma in Ayurveda Dietetics and Lifestyle (2 Year Course Module)

Objectives of the Course:

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One year Ayurveda Diet course has been specially designed for Ayurveda graduates and post graduates so that after completion of course the person will feel comfortable and sufficiently knowledgeable in understanding the Ayurveda concept of life style and diet preparation.

Furthermore this course is designed in such a way that, it make participant capable enough to learn various methods of diet preparation and life style modulation according to the individuals constitution, season, occupation and ailments.

Graduates or post graduates will be absorbed as the diet consultants and life style specialist in various Ayurveda hospitals / institutes

Intake Capacity: 50

Eligibility Criteria: To be eligible for admission into the course, the students should have passed graduation with 60% in BAMS Final Year Exam from the institute recognised by CCIM.

Duration of the course: 2 years

Attendance requirement:

- Candidate must have 75% attendance in theory and practical session.

- Aspirants will be informed about their attendance periodically so that they shall be cautioned to cover up the attendance shortage.

Course fee structure:

- The PG Diploma course fee will be 50000/annum.

- Fee includes only course materials.

- To join the course need to submit two passport size photographs, xerox copy of BAMS degree certificate along with application form.

Time Table

- Students who do this Course have to follow the following schedule and attend all the classes without fail. Please note that 75% attendance is mandatory in order to completion of the course smoothly.

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Teaching Methodology:

- Practical physical identification of the food articles
- Power point presentation
- Demonstration of cooking and Dinacharya Kriya's
- Greup discussion
- Disease wise diet and lifestyle planning in Hospital

Core Values

Ayurveda dietetic Course has designed in such a way that students will not only be able to identify, prepare the various types of Ayurvedic diet but also get opportunity as diet consultant and life style specialist in various Ayurveda institutes or Ayurveda hospital. The core values of the Ayurveda Dietetics and Lifestyle course are as follows.

Course Curriculum

Paper: I

100 Marks

Diet and Lifestyle Introduction

- Introduction to Ayurveda
- Concept of Swastha

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- Concept of Swasthavritta, various definition of Swastha according to various classical texts
- Importance of Tryopastamba in maintenance of health
- Importance of Ahara in maintenance of health in general
- Concept of Ahara in various Ayurvedic classics
- Various classification of the food articles (Classical and modern)
- Modern Nutrition and dietetics
- Prakriti wise diet
- Occupation wise diet
- Diet pattern for preservation and promotion of health
- Diet in School going Children
- Diet in Pregnancy
- Diet in Geriatrics
- Swasthavritta Definition
- Bramha Muhurta Jagarana, Ushapana, Malamutra Visarjana, Achamana, Danthadhavana, Jiwha Nirlekhana, Kavala, Gandusha, Nasya, Anjana, Dhumapana, Abhyanga, Vyayama, Snana, Vastra Dharana, Anulepana,
- Madhyana Charya
- Sandhya Charva
- Ratri Charya

Paper: II

100 Marks

Seasonal Diet

- General concept of Diet according to the Seasons
- Importance of diet according to various seasons
- Diet in Hemnata Ritu
- Diet in Shishira Ritu
- Diet in Vasanta Ritu
- Diet in Grishma Ritu
- Diet in Varsha Ritu
- Diet in Pravrut Ritu
- Diet in Sharad Ritu
- Ritu Charya Introduction
- Ritu Charya
- Ritu Shodhana

Paper: III

100 Marks

Diseases Diet

- Diet and lifestyle according to disorders
- Diet and lifestyle in Communicable diseases in general
- Diet and lifestyle in Non Communicable diseases in general
- Diet pattern and lifestyle in the Risk group individual
- Diet and lifestyle in Jwara
- Diet and lifestyle Rakta Pitta
- Diet and lifestyle Amla Pitta
- Diet and lifestyle GrhiniRoga
- Diet and lifestyle HrudayaRoga
- Diet and lifestyle Amavata
- Diet and lifestyle Kamala and PanduRoga
- Diet and lifestyle Sandi vata
- Diet and lifestyle Sthaulya
- Diet and lifestyle StriRoga
- Diet and lifestyle Prameha / Madhumeha
- Diet and lifestyle Renal calculi
- Diet and lifestyle Ano rectal disorders
- Diet and lifestyle Skin disorders in general
- Diel and lifestyleArbudaroga (Cancer)
- Diet and lifestyle Nidranasha

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Paper: IV

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100 Marks

Diet Preparation

- Introduction to Kritanna Varga

- Various method of cooking - Ayurveda and Modern Dietetics

- Preparation of Manda, Peya, Vilepi, Vodhana, Raga, Shandava, Khala, Kambalika, Pupilika, Vataka, Rotika, Dhaal, Shaka, Yusha, Supa, Saktu Etc. all preparation methods along with the benefits, indication and contraindication

Lifestyle modalities: Ushapana, Danthadhavana, Jivhanirlekhana, Kavala, Gandusha, Abyanga, Udvarthana, Anulepana, Nasya, Anjana.

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