

KERALA UNIVERSITY OF HEALTH SCIENCE

MD. (AY) – PRELIMINARY EXAMINATION

Paper I- RESEARCH METHODOLOGY AND MEDICAL STATISTICS

Time: 3 hours

Maximum marks: 100

INSTRUCTIONS: USE OF CALCULATORS PERMITTED.

PART A

1. Explain different steps involved in Randomized Control Trial. 10
2. Describe in detail the principles and methods of clinical research. 10
3. It is proposed to conduct a study to access Anemia in adolescent girls.
Write a research protocol to conduct the study. 15
4. Write short note on:
 - a. Research question. 5
 - b. Experimental research. 5
 - c. Qualitative research. 5

PART B

- 1 Describe various measures of dispersion and discuss their advantages and disadvantages. 10
- 2 The average respiratory rate of 200 new born children was found to be 126 with a standard deviation of 95% confidence interval for respiratory rate in the population. 10
- 3 Describe student 't' test. 10
- 4 Explain Correlation and Regression. 10
- 5 In survey conducted in a locality 90 cases were identified and another 120 were already under treatment. At the same time 30 cases were also reported and 3 persons died in the episode. Calculate all possible measures of morbidity. 10

KERALA UNIVERSITY OF HEALTH SCIENCE

MD. (AY) – PRELIMINARY EXAMINATION

P.G. PRELIMINARY AYURVEDA DEGREE EXAMINATION

PAPER II Moulika Siddantha

AYURVEDEEYA SIDDHANTHA

Time: 3 hours

Maximum marks: 100

(9 × 10)

1. Discuss the theory of 'Panchamahabhuta' and its utility in chikitsa.
2. Write the importance of Aushdha sevana kala.
3. Influence of Derśana in Ayurveda.
4. Explain 'Aṅuntwam ēkatwam Ća'
Prove that Manas is only one and subtle.
5. Discuss Agni in different level.
6. Explain Yukti Pramāṇa and its importance in Ayurveda.
7. Write detail about Laghutrayi.
8. Describe X-ray and USG.
9. Explain Rasapancakam.
10. Write short essay on
 - a. Ōjas
 - b. Deśavidha Pareksha

(2 × 5)

KERALA UNIVERSITY OF HEALTH SCIENCE

MD. (AY) – PRELIMINARY EXAMINATION

PAPER II

MAULIKA SIDDHANTHA – KRIYA SAREERA

Time: 3 hours

Maximum marks: 100

1. Explain the factors helping in the formation of Prakṛti and describe the possible relationships with Prakṛti and modern genetics. 20
2. Brief the functions of the hormones produced by thyroid gland.
Describe the features of hypothyroid states with the deranged states of Agni. 20
3. Describe the functions of Tridosha and explain its function related to the physiology of digestion. 20
4. Describe the followings:- (10×4=40)
 - a. Define the 'mana' and explain the sensory areas in brain.
 - b. Explain Shadvidha Pareeksha and compare it with the modern diagnostic procedures.
 - c. Describe the stages of menstrual cycle and compare it with ārthava chakra.
 - d. Explain the basic structure of cell and compare each cell components with concept of Pancha bhuta.

KERALA UNIVERSITY OF HEALTH SCIENCE

MD. (AY) – PRELIMINARY EXAMINATION

PAPER II MOULIKA SIDHANTA

DRAVYAGUNAVIJNANA

Time: 3 hours

Maximum marks: 100

(10 × 10 = 100)

1. Explain the 'Pancha bhoutic' basis of Dravya and its implications with 'Samānya andiśēsha
2. Write Tiktha rasa lakshana and Karmas with suitable examples.
3. Explain various Sōdhana Karmas of Samgadhara Samhita with suitable examples.
4. Write the importance of Sōdhana karma (purification) of herbal drugs in relation to Chitraka and Kupeelu.
5. Pharmacognostically identify Myrtaceae and Rutaceae family with suitable examples.
6. Write the development of Dravyaguṇa śāstra in the present era.
7. Write one important Amayika prayoga of the following drugs. Explain their mode of action.
 - a. Ativisha
 - b. Chitraka.
8. Write the adulterant of Tila Taila and describe the methods of to identify it.
9. Explain the importance of 'Ashtstāna Pareeksha vidhi' in diagnosis.
10. Write short note on:-
 - a. ECG variations in Myocardial infarction.
 - b. Use of USG in urogenital disorders.

KERALA UNIVERSITY OF HEALTH SCIENCE

MD. (AY) – PRELIMINARY EXAMINATION

PAPER II

MOULIKA SIDHANTA - RASASASTRA

Time: 3 hours

Maximum marks: 100

(10×10=100)

1. Explain the evolution of Rasa Sāstra from Loha Vēdha to Dēha Vēdha.
Discuss the Derśana concerned with Rasaśāstra.
2. Substantiate the importance of Paribhāsha in Rasaśāstra. Explain the Paribhāsha terms coming under Bhasma Pareeksha.
3. Discuss the logic behind the classification of Rasadravyas. Give an illustration of Rasadravya Vargewekaraṇa as per Rasa classics
4. Write the parameters in minorology for the identification of Rasadravyas.
5. Explain the verities of Parada moorchana. Write the significance of Pottali kalpana.
6. Write a short note in Drug & Cosmetic Act. Discuss the drug standardization techniques of Rasoushadhis.
7. Give a brief account on the machineries used in Rasaushadha Nirmāṇa.
8. Describe the followings (10×2=20)
 - a. Rasaśāla Nirmāṇa and guidelines in GMP for ASU drugs
 - b. Pathyapathyas during Rasoushadha Sēvana.
9. Explain the Shadvidha Pareeksha and compare it with modern diagnostic procedures.

KERALA UNIVERSITY OF HEALTH SCIENCE

MD. (AY) – PRELIMINARY EXAMINATION

PAPER II

MOULIKA SIDHANTA – BHAISHAJYA KALPANA

Time: 3 hours

Maximum marks: 100

(10 × 10 = 100)

1. Substantiate the development of Oushadha and Ahāra Kalpanas in Ayurveda and give an illustration of different Kalpanas in Saarnghadhara Samhita.
2. Describe the different routes of drug administration in Ayurveda. Write the concept of pharmacodynamics in Ayurveda with a suitable example.
3. Write the guidelines of pertaining to the application of Lepa. Discuss the mechanism of drug action in Lepa.
4. Define 'Nutraceuticals' and discuss the significance of Pathyakalpana in Swasta and Athura.
5. Write the metric equivalents of all the measurements in Magadha maana.
6. Give a brief account of Vastikalpana. Explain the mode of drugs action in Vasti Karma.
7. Explain the guidelines for drug collection in Ayurveda.
8. Explain GMP for ASU drugs. Write the rules pertaining to packing and labeling.
9. Describe the machineries and modern pharmaceutical techniques which can be incorporated for preparing Ayurvedic medicines.
10. Discuss the significance of modern diagnostic procedures in assessing Roogāvasta.

KERALA UNIVERSITY OF HEALTH SCIENCE

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PAPER II MOULIKA SIDHANTA

ROGANIDANA AND VIKRITIVIJNANA

Time: 3 hours

Maximum marks: 100

INSTRUCTIONS: All questions are compulsory. Each section carries 25 marks

10 marks for long essay and 5 marks for short essay

SECTION – I

1. Critically analyse the role of 'Ama' in the manifestation of diseases with suitable examples. (10 marks)
2. Write short note on :-
 - a. Discuss the role of 'Dosha gati' in the manifestation of 'Kamala'
 - b. Differentiate between 'Udarka' and 'Upadrava' with suitable examples.
 - c. Define and classify 'Arishta' (3 × 5=15)

SECTION - II

1. According to Susruta write the clinical features of 'Ama', 'Pachyamana' and 'Pakwa' stages of 'Nija sophā' (10 marks)
2. Write short note on :-
 - a. Nasal diseases are more common now- a- days. Discuss the Nidanas.
 - b. What are Nidanas of 'Bhagandhara'?
 - c. Write the diagnostic approach of lump in the breast. (3 × 5=15)

SECTION III

1. Write classification of 'Bala'. How will you assess the sequential development of an infant in the first year of life? (10 marks)
2. Write short essays on :-
 - a. Write the lakshanas of 'Udavardha Yoni Vyapti'

- b. 'Pradara' on the basis of Charaka Samhita.
c. Classify 'Adhyātmika Vyadhis' and mention 'Down's Syndrome'. (3×5=15)

SECTION IV

1. Write the specific indications of each of 'Dwividhopa Karmas' (10 marks)
2. Write short notes on :-
a. Write the application of 'Sparśana Pareeksha' in abdomen.
b. Explain 'Leptospirosis' and analyze the state of doshas in it.
c. E.E.G. as an investigation of epilepsy. (3×5=15)

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MD. (AY) – PRELIMINARY EXAMINATION

PAPER II

MOULIKA SIDHANTA – SWASTAVRITTA

Time: 3 hours

Maximum marks: 100

(10 × 10 = 100)

1. Explain the importance, qualities and abnormalities of Ojas.
2. Briefly explain 'Desavidha Pareeksha'.
3. Describe 'Swāstya Samrakshaṇa Upayas' in Rtusandhi.
4. Explain the causes, effects and control measures if air pollution.
5. What are the basic principles of Naturopathy?
6. Describe the importance of Rasayana in public health.
7. Briefly explain 'Amasaya and Pakwasaya gathavishāṇa chikitsa'.
8. Explain Immunization schedule.
9. Briefly mention 'Oashadha Sevana Kalas'.
10. Write short note on :-
 - a. MRI Scan
 - b. CT scan.

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MD. (AY) – PRELIMINARY EXAMINATION

PAPER II

MOULIKA SIDHANTA – KAUMARABHRTYA

Time: 3 hours

Maximum marks: 100

(10 × 10 = 100)

1. Explain Sankhatabalapravritta Vyadhi with examples.
2. Explain the pediatric diagnostic methods mentioned by Acharya Kapila.
3. Give a detailed description of Kuposhanjanya Vikara.
4. Detail the ancient new born care with scientific explanation.
5. Elaborate the gross motor and fine motor development.
6. Discuss Purusha Grahas.
7. Define Apasmaara and explain its various types.
8. Discuss the behavior disorders in children.
9. Explain the importance of Lehana in pediatric practice.
10. Describe the principles of dosage fixation in children.

KERALA UNIVERSITY OF HEALTH SCIENCE

MD. (AY) – PRELIMINARY EXAMINATION

PAPER II- MOULIKA SIDHANTA

AGATHATANTRA EVUM VYAVAHARA AYURVEDA

Time: 3 hours

Maximum marks: 100

(10 × 10 = 100)

1. Explain Gara Visha and its contemporary importance.
2. Explain Sarpa bheda, give a short note on Vega lakshanas and chikitsa of Darvikara sarpa.
3. Give an account of Mooshika Visha lakshanas and chikitsa.
4. Write Chaturvimsati Upakarma and explain any three.
5. Relevance of age and Dactylography in identification.
6. Write a short note on Abortion and explain MTP Act.
7. Explain Asphyxia and write an account on drowning.
8. Classification of injuries and explain gunshot injuries.
9. Write a short note on Mercury.
10. Write Upavisha classification and explain ahiphena and its purification.

KERALA UNIVERSITY OF HEALTH SCIENCE

MD. (AY) – PRELIMINARY EXAMINATION

PAPER II- MOULIKA SIDHANTA – KAYACHIKITSA

Time: 3 hours

Maximum marks: 100

(10×10=100)

1. Describe Rogamarga and substantiate its necessity in clinical practice.
2. Describe scope and methods of CT scan in current clinical practice.
3. Explain the role of Shud Upakarma in Vata Vyadhi chikitsa.
4. Explain the role of Bhashaja kala in present day clinical practice.
5. Explain the role Ama in Chikitsa.
6. Describe the role of Moordha Thaila in Vata vyadhi.
7. Describe the application of Kriya kala in Jwara chikitsa.
8. Explain the relevance of Vyadhi classification in prognosis of disease.
9. Explain the role of Dosha Vichindana in chikitsa.
10. Explain the role of Snehapana Avaranajanya Rogas.

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PART II- MOULIKA SIDHANTA – PANCHKARMA

Time: 3 hours

Maximum marks: 100

(10×10=100)

1. Critical analysis on classification and dosage of Nsya.
2. Give a brief account of Vamana Vyapat and explain the management of any two.
3. Discuss the probable mode of action of Vasti.
4. Relevance of Dasvidha {Pareeksha in deciding the suitable Panchakarma.
5. Discuss the contradiction of Sweda Karma.
6. Explain the Samyak Virechya Lakshana and its objective analysis clinically.
7. Explain and discuss Vicharana Snehapana.
8. Critically analyse the concept of Agni and its application with respect to Panchakarma.
9. Explain Stambhana karma, guna of stambhana dravya and its indication.
10. Diagnostic importance of CT scan.

KERALA UNIVERSITY OF HEALTH SCIENCE

MD. (AY) – PRELIMINARY EXAMINATION

PART II- MOULIKA SIDHANTA

MANOVIJANAM EVAM MANASAROGA

Time: 3 hours

Maximum marks: 100

(20×5=100)

1. Explain Swaroopam, Stanam, Vishayam, Gunam and Dosham of Mana.
2. List the general symptoms of Psychiatric disease. Describe Psychiatric patient assessment in detail.
3. Explain the Hetu, Saamaanya lakshana, Sampraapti and the chikitsa of Unmaadam.
4. Define Prajnaaparadha. How does it cause Manoroga. Explain with suitable example.
5. Write short notes on:-
 - a. Neurosis.
 - b. Personality disorders.
 - c. Psychosomatic disorders.
 - d. Psycho pharmacology.
 - e. Psychiatric emergencies.

KERALA UNIVERSITY OF HEALTH SCIENCE

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PART II- MOULIKA SIDHANTA

SALYATANTRA

Time: 3 hours

Maximum marks: 100

(10 × 10 = 100)

1. Describe the methods of theatre sterilization and preparation of a patient for surgery in general.
2. Classify the Kandabhagna and write the general principles of fracture management.
3. Write the Samprapti, Clinical examination and surgical treatment of Anthra Vrudhi.
4. Explain the various investigations and imaging technologies that can be utilized in the diagnosis of Moothravasrotho roga
5. Discuss the importance of classification of Marma according to fatality (Parinama bhedana)
6. Write the classification of Sadhyo Vruna with its major complications.
7. Discuss the role of Tridosha and rekta in the formation of cardinal signs of inflammation.
8. Write Nidana Samprapti and clinical examination of Bhagandhara.
9. Discuss the role of Padhya-Apadhya in post-operative care.
10. Write the method of Nabhi Nali Chatana with its complications.

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PART II- MOULIKA SIDHANTA

SALAKYATANTRA

Time: 3 hours

Maximum marks: 100

(10 × 10 = 100)

1. Write the common aetiological factors of eye diseases.
2. Write the clinical features of management of Indralupta.
3. Explain the mechanism of hearing.
4. Write the clinical features and treatment of Thundikeri.
5. Write short note on:-
 - a. Kukoonakam
 - b. Mukhapagam.
6. Describe Slit lamp.
7. Explain the anatomy of lacrimal passage and explain dacryocystitis with treatment.
8. Write the clinical features of management of Galakhandom.
9. Explain the errors of refraction and its management.
10. Write short note on:-
 - a. E.E.G.
 - b. Audiometry.

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MD. (AY) – PRELIMINARY EXAMINATION

PART II- MOULIKA SIDHANTA

PRASOOTI & STRIROGA

Time: 3 hours

Maximum marks: 100

(10 × 10 = 100)

1. Define and describe different aspects of 'Arthavom'. Describe ovulatory cycle and diagnosis of ovulation.
2. Explain in detail the applied aspects of influence of 'Panchamahabhuta' and shad bhavas on the development of human embryo.
3. Describe 'Garbha Poshanam at different stages of development of garbham.
4. Write in detail the 'garbhopaghatakarabhavas' and its effect on developing foetus.
5. Describe 'Garbha sangha' and its management.
6. Describe the clinical features of Stanarbuda and its management.
7. Describe the clinical features of Vatiki and Paitiki along with its management.
8. Describe 'Garbhasayamukha dehanam'.
9. Describe Vandhyakarana shastrakarma'.
10. Write short note on:-
 - a. Medical termination of pregnancy.
 - b. Makkalla vidradhi.