

SYLLABUS FOR PhD ENTRANCE EXAM RACHANA SHARIRA

1. SHARIOPKRAMANIYA SHAARIRA:

Marks-3

- Sharir and Shaarir vyakhya. (definitions of sharira and sharira)
- Shadangatvam. (Six regions of the body).
- Anga Pratyanga vibhaga. (subdivisions).
- Sharir shastra vibhag.
- Sharir gyan prayojan and its description in contemporary science with its clinical importance.

2. PARIBHASHA SHAARIRA: -

Marks-1

- Kurcha, Snayu, Kandara, Rajju, Seemanta, Sanghata, Jala and lasika, etc and their general description.
- Terminologies related to shadang Sharir.

3. GARBHA SHAARIRA

Marks-3

- Etymology of Garbhavakranti Sharir.
- Concept and features of Shukra and Shonita.
- Description of Beeja, Beejbhaga, Beejbhagavyava and Garbhotpadaka bhava.
- Garbha Poshana Krama, Garbhavridhikar Bhav, Masanumashiki Garbhavridhi,
- Explanation of lakshana occurring in Ritumati, Sadhyah Grihita Garbha, Yamalgarbha, Anasthigarbha.

4. EMBRYOLOGY

Marks-3

- Explanation of Basic Embryology, and Systemic embryology.
- Embryo and fetus. Sperm and Ovum, Fertilization, Cleavage.
- Germ layer formation and their derivatives. Laws of heredity, sex determination. Month wise development of embryo.
- Fetal circulation, Placenta formation, umbilical cord formation.
- Knowledge of basic facts in advancement in Anuvanshiki (Genetics) and Garbhajavikara (Teratology).

5. ASTHI SHAARIRA :-

Marks-1

- General introduction and description of Asthi.
- Differences among number of Asthi.
- Types of Asthi.

6. OSTEOLGY:

Marks-1

- Bone structure, types and ossification.
- Detail study of each bone with its applied anatomy.

7. SANDHI SHAARIRA:

Marks-2

- Etymological derivation, description, features, number, types.
- Introduction of diseases of sandhi explained in Ayurveda.
- Applied anatomy of all Sandhi (joints).

8. ARTHROLOGY:

Marks-1

- Joints structure, types and movements.
- Description of joints of extremities, inter-vertebral joints and temporomandibular joint with their clinical anatomy.

9. Peshi SHAARIRA:

Marks-1

- Etymological derivation, description, features, number, types and Applied anatomy of all Peshee (Muscles).

10. MYOLOGY:

Marks-2

- Structure and types of muscles.
- Description of important muscles: origin, insertion, actions, nerve supply and clinical anatomy.
- Muscle movements in Yogasana

11. KESHA, NAKHA DANTA SHARIR:

Marks-2

- Description of Panchbhautik swarup and its applied value.
- Explanation of its swabhava (Pitruja) and its applied value.
- Description of Prakrita (normal) and Vikruta (abnormal) Swarup (appearance) of keshha, danta, nakha in concern with disease
- Importance of examination of keshha, danta, nakha.

12. PRAMANA SHARIRA:

Marks-1

- Anguli pramana & Anjali praman with its applied importance.

13. KOSHHA EVAM ASHAYA SHARIRA:

Marks-2

- Detail etymological derivation of 'Koshtha' and Koshthanga, including detail study of structure of each Koshthanga.

14. Ashaya:-Definition, detail description.

15. SIRA SHARIR

Marks-1

- Etymological derivation, definitions, synonyms, number and types of Sira and its applied aspect.
- Introduction to sira vedha.
- Description of Vedhya and Avedhya Sira (Puncturable and Non puncturable Veins)
- Clinical importance of Sira

16. DHAMANI SHARIR

Marks-1

- Etymological derivation, definitions, synonyms, number and types of dhamanis and its applied aspect.
- Clinical importance of Dhamani including modern anatomical counterparts.

17. SROTAS SHARIR

Marks-1

- Etymological derivation, definitions, synonyms, number and types of Srotas.
- Anatomical differences among Sira, Dhamani and Srotas.
- Applied aspect of strotas including modern anatomical counterparts.

18. KALA SHARIR: -

Marks-1

19. Etymology, Definition, description of Seven Kala with their Modern component and applied aspects.

20. INDRIYA SHARIR:

Marks-2

- Description of Panchgyanendriya – Ayurved and Modern aspects.
- Sensory organs (Eye, Ear, Nose, Tongue and Skin with their Applied anatomy).
- Shat Chakra - Location and significance in Yoga. Description of Ida, Pingala, Sushumna nadi.

21. TWACHA SHARIR:

Marks-1

- Definition, types and characteristics of Twacha with its clinical importance, significance of Twacha adhisthana in disease manifestation and its relation with Dhatu.

22. MARMA SHAARIRA:**Marks-3**

- Derivation and definitions of the term Marma and their features, characteristics and number of Marma according to Sushruta.
- Divisions of Marma on morphological basis (Rachana Bheda), Shadangatvam (Regional), Abhighataja (Prognostic) classification,
- Trimarma according to Charaka.
- Knowledge of 'Marma abhighata', Marma Viddha.
- Detailed study of individual marma with their clinical and Surgical importance.
- Importance of Marma in Shalya tantra.

23. RESPIRATORY SYSTEM**Marks-3**

- Bronchial tree and Lungs with their clinical aspects.
- Respiratory tract: Nasal cavity, Pharynx, Larynx, Trachea.
- Pleura with its clinical aspects.
- Diaphragm and its openings.
- Histology of all organs.

24. DIGESTIVE SYSTEM**Marks-2**

- Regions of abdomen.
- Organs of digestive tract (alimentary tract) with their clinical aspects.
- Digestive glands: Liver, Spleen and Pancreas.
- Description of peritoneum with its clinical aspects.
- Histology of all organs.

25. CARDIOVASCULAR SYSTEM**Marks-2**

- Description of Heart.
- Structure of artery & vein.
- Importance blood vessels with their course and branches.
- Pericardium with applied aspect.
- Histology of Heart.

26. URINARY SYSTEM**Marks-1**

- Urinary tract: Kidney, Ureter, Urinary Bladder and Urethra with their clinical aspects
- Histology of all organs.

27. REPRODUCTIVE SYSTEM**Marks-2**

- Male Reproductive system: Reproductive organs, Scrotum and glands (Testis, Prostate and Seminal vesicles) with their clinical aspects.
- Female reproductive system: Introduction of external genital organ in brief and internal reproductive organs in detail, tract and glands with clinical importance.
- Histology of all organs.

28. ENDOCRINOLOGY**Marks-1**

- Description of endocrine glands (Pituitary, Thyroid, Parathyroid, Thymus, Pineal and Supra renal glands) with histology and clinical aspects.

29. LYMPHATIC SYSTEM**Marks-1**

- Introduction Structure included in lymphatic system: Lymph vessels, Lymph nodes, Lymph glands with their clinical importance.

30. NERVOUS SYSTEM**Marks-2**

- Anatomy of brain and spinal cord.
- Peripheral nervous system (explanation of Nerve Plexuses and peripheral nerves.
- Cranial nerves and Autonomic nervous system, Cerebro-spinal fluid, Venous sinuses of Brain, Ventricular system of Brain, Blood supply of Brain, Meninges with Applied Anatomy.

31. RADIOLOGICAL ANATOMY**Marks-2**

- Characteristics of radio imaging film and detailing about its color contrasting.
- Identification of Normal alignment of bodily structure –X ray film.
- Brief knowledge of MRI, CT scan, USG procedures, Colour Doppler etc.
- knowledge of soft tissue specimen preparation and current technology like plastination and luminal casting.

32. SURFACE ANATOMY:**Marks-1**

- Identification of underlying Viscera of Nine region based upon cadaveric and living anatomy.
- Surface marking of thoracic, abdominal and pelvic viscera.