

## **Syllabus For PhD ENTRANCE EXAM**

### **AGADTARA EVAM VIDHI AYURVED**

**Marks- 1**

1. Agada Tantra, its sequential development during Veda kala, Samhitha kala. Samgraha kala and Adhunik kala.

**Marks- 1**

2. Definition of Visha properties of visha and its comparison with madya and oja, visha samprapatti, visha prabhava, visha-vega vegantara and visha karmukata (toxicodynamic and toxicokinetic study).

**Marks- 1**

3. Ancient and contemporary classification of visha.
4. Descriptive and comparative study of Upavisha in unison with Contemporary Toxicology.

**Marks- 1**

5. Examination of poisons per Contemporary and Ayurvedic Methods.
6. Descriptive study of sthavara visha, definition, classical signs and symptoms of poisoning including vanaspathi (phyto poison), ksharajala (mineral) and compound sthavara visha.

**Marks- 2**

7. Study of Jangama visha and their sources (Animal poisoning and Zoonotic Diseases). Descriptive study of snakes according to ancient and contemporary knowledge. Causes of snake bite and its types. Composition of snake venom and its pharmacology action. Signs and symptoms of envenomation and its prognostic signs. Clinical feature of Vrischika (scorpion). Luta (spider). Grihagadhika (Lizard), Mushaka (rats), Alarka (dogs). Makshika (fly) and Mashika (mosquitoes) and their pathologic manifestation including their role in the manifestation of communicable diseases.

**Marks- 3**

8. Shankha visha and its management. Visha sankat and Visha Kanya.

9. Kritrima visha:- Inorganic Acids – Sulphuric acid , Hydrochloric acid, Nitric acid, Organic Acids- Oxalic acid, Carboic acid, Formic acid . Alkalies – Potassium hydroxide and Sodium hydroxide. Asphyxiant – Carbon monoxide, Carbon dioxide. Non-metallic poisoning – Phosphorous, cyanide, Hydrocarbons – Kerosene. Agrochemical Poisoning – Organo-phosphorus compounds, Carbamates, Organo- chlorine compounds, Aluminium phosphide. Household poison.

**Marks- 2**

10. Garavisha and Dushi visha, their varieties, signs, symptoms and management with contemporary relevance. Detail study and treatment of Allergies including allergic manifestations in the eyes, nose, lungs, and skin.

**Marks- 1**

11. Detailed study of the Madya visha and substances acting on the nervous system; substance abuse. (Diagnosis, Management and De-addiction).

**Marks- 2**

12. Detailed study of the contemporary knowledge about vishajanya Janpadodhvaniya roga (community health problems due to poisons – Environmental pollution, water management according to ancient and recent concepts).

**Marks- 1**

13. Concept of Virudha aaharam, Aashra visha and Satmyasatmata in contemporary and Ayurvedic views.

**Marks- 1**

14. Conceptual study: - Drug interaction and incompatibility, Pharmacovigilance.

15. Fundamental Principles for treatment of poisoning.

**Marks- 2**

16. General and specific treatment of different types of Sthavara visha.

17. General and specific treatment of different types of Jangama visha (animal poisons, insect poisons, snake, snake bites and other zoonotic diseases).

**Marks- 1**

18. Techniques of pathology, pharmacology, pharmacognosy microbiology used in toxicology.

**Marks- 1**

19. Emergence medical management of poisoning including preparation, administration and complications of antivenoms/antisera.

**Marks- 1**

20. Chaturvimsati upakrama (24 management procedures).

21. Diagnosis and Management of Durg Induced Toxicity.

**Marks- 1**

22. Management of the toxic manifestation caused by the contact poisons (paduka, vasthra, abharana, mukhalepa-vishabadha etc).

**Marks- 2**

23. Diagnosis and Management of food poisoning.

24. Death due to poisoning, Duty of physician in poisoning, in cases of suspected poisoning. Post mortem findings in poisoning.

**Marks- 1**

25. Extra – corporeal techniques (dialysis etc) for removal of poisons.

26. Diagnosis and management of dermatological manifestation of visha.

**Marks- 2**

27. Agada Tantra perspectives on cancer – Toxic carcinogens, Toxicities due to chemo and radiotherapy and its Ayurveda approach, Agada and visha dravya prayoga in the prevention and management of cancer along with its research updates.

**Marks- 1**

28. Definition of the Vyavahara Ayurveda, its evolution in ancient and contemporary periods.

**Marks- 1**

29. Introduction to forensic medicine & medical jurisprudent.

30. Personal identity and its medico-legal aspects.

**Marks- 1**

31. Death and its medico-legal aspects (Medical Thanatology).

32.Asphyxial death and its medio-legal importance.

**Marks- 1**

33.Death due to starvation, heat and cold, lightening and electricity.  
Suspended Animation.

**Marks- 1**

34.Medico-legal autophy.

35.Injury its classification and Medio-legal aspects.

**Marks- 1**

36.Impotence and sterility-its medico-legal aspects. Regulation of Artificial Insemination. Medico-legal aspects of surrogate motherhood.

37.Sexual offences and perversion.

**Marks- 1**

38.Medico-legal aspects of virginity, pregnancy, delivery, abortion, infanticide and legitimacy with related acts.

**Marks- 3**

39.Indian Penal Code. Criminal procedure code and study of related acts like Indian Evidence Act, Preliminary knowledge of Bhartiya Nyay Samhita and Bhartiya sakshya adhiniyam. Pre Natal Diagnostic Test Act, Nursing Home Act, Human Organ Transplantation Act, Narcotic drugs and Psychotropic substances Act 1985, Pharmacy Act 1948, Drugs and Magical Remedies (Objectionable Advertisement) Act 1954, Medicinal and Toilet Preparations Act 1955 and Anatomy Act, Clinucal Establishments Act, State AYUSH registration board rules and regulation. Medicare Service Persons and Medicare Service Institutions (Prevention of violence and damage or loss to property ) Act, 2008 , Drugs and Cosmetics Act and Rules Schedules related to poison , Consumer Protection Act related to medical practice, The Occupational Safety , Health and Working Condition Code , 2020, Employees State Insurance Act , 1948 , Right of Person with Disability Act, 2016 , Mental health act, etc. Any related act enacted by the government from time to time.

**Marks- 1**

40.Courts and Legal procedures.

41.Structures and function of Forensic Science Laboratory.

42.Medico legal aspect of mental illness.

**Marks- 1**

43.Respective State Council of Indian Medicine, its structure, power, voluntary, duties, Vaidya sadvritta. Vaidya sadvritta, medical ethics and code of conduct, Charaka oath and Hippocratic oath.

**Marks- 2**

44.NCISM – constitution, objectives and function. Duties, right and privileges of a registered medical practitioner. Consent, professional secrecy and privileged communication. Professional negligence, professional misconduct and unethical practices. Defenses in medical negligence suits. Medical records.

**Marks- 1**

45.Doctor – patient relationship.

46.Rights and privileges of patients; Euthanasia.

47.Indemnity Insurance scheme.

**Marks- 1**

48.Ethics as in classics. Types of physicians and methods of identification, Pranabhisara and Rogabhisara Physicians, qualities of physicians towards patients.

**Marks- 2**

49.Study of process for sodhana, marana and samskarana of poisonous drugs.

50.Pharmaco dynamics of different formulation used in Agadatantra & Therapeutic utility of Agada yoga – Dooshivishari agada, Bilwadi agada, Dashanga agada, Murvadi agada, Panchashirisha agada, Vishaghna mahakshaya (Charaka Samhita) Ekasara gana (Sushruta Samhita).

**Marks- 1**

51.Study of pharmacology and usage of antidotes as per the Ayurvedic and contemporary science.

**Marks- 1**

52.Fundamental of pharmaceutics according to Ayurvedic and contemporary point of view.

**Marks- 1**

53. Chemical, analytical, laboratory examination of poisons and suspicious substance.

**Marks- 1**

54. Introduction of different instruments / equipments used in the examination of poisons.

**Marks- 1**

55. Introduction to Clinical toxicology, Experiment toxicology and Toxicogenomics.

\*\*\*\*\*