

AGADTANTRA ATP -THEORY (2024-2025)

| Paper 1 | | | |
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| Sr. No | List of Topics | Term | Marks |
| 1 | Concepts of Agada Tantra (Clinical Toxicology) 1.1 Agada Tantra and Clinical Toxicology. 1.2 Scope of Agada Tantra. 1.3 Definition of visha and poison, synonyms, visha guna, difference between visha, madya and oja guna, visha gati, classification of visha and poison, sthavara and jangama visha adhishtana. 1.4 Difference between poison, venom and toxin. 1.5 Routes of administration of poison. 1.6 Mode of action of visha (visha gunanusara karma) and poison (Introduction to toxicokinetics) 1.7 Factors modifying the action of poison. 1.8 Visha vardhaka bhava and visha sankata 1.9 Vishavega, vegantara and sthavara visha veganusara lakshana and chikitsa. 1.10 Visha peeta and vishamukta lakshana. | 1 | 13 |
| 2 | Visha Chikitsa (Management of Poisoning) 2.1. Diagnosis of poisoning in living & dead 2.2. Chaturvimshati upakrama. 2.3. General principles of management of poisoning. 2.4. Duties of medical officer in case of suspected poisoning. | 1 | |
| 3 | Vishakta aahara pariksha and Viruddha ahara 3.1. Sources of exposure of visha with contemporary relevance. 3.2. Vishakta aahara pariksha. 3.3. Adulteration and tests for its detection. 3.4. Techniques used in the detection of poisons. 3.5. Viruddha-ahara with contemporary relevance. 3.6. Food poisoning and amavisha. | 1 | |
| 4 | Garavisha and Dooshivisha 4.1. Garavisha 4.2. Dooshivisha 4.3. Contemporary aspects of garavisha and dooshivisha. 4.4. Role of garavisha and dooshivisha in the manifestation of diseases 4.5. Research updates in garavisha and dooshivisha | 1 | 12 |
| 5 | Visha Upadrava and diseases caused due to exposure to Visha/poisons | 1 | |

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| | <p>5.1 Visha upadrava 5.2 Drug-induced toxicity ♦5.3 Occupational hazards. ♦5.4 Allergic manifestations ♦5.5 Endocrine disrupters ♦ ♦</p> | | |
| 6 | <p>Environmental Toxicology 6.1 Vishakta vayu, jala and bhumi (air, water and land pollution) 6.2 Effect of biological, chemical and nuclear warfare. 6.3 Ecotoxicology & biomagnification. 6.4 Toxicovigilance. ♦ ♦ ♦</p> | 2 | 11 |
| 7 | <p>Dermatological manifestations of visha/poisons. 7.1. Contact dermatitis and its management. 7.2. Signs and symptoms and management of abhyanga visha, lepa visha, vastra visha, paduka visha, abharana visha etc. with contemporary relevance. 7.3. Signs and symptoms and management of dermatological manifestations due to cosmetics, chemicals, occupational and other allergens. 7.4. Dermatological manifestation due to dooshivisha and garavisha. 7.5. Dermatological manifestation due to bites and stings.</p> | 2 | |
| 8 | <p>Therapeutic utility of Agada yoga 8.1 Dooshivishari agada 8.2 Bilwadi agada 8.3 Dashanga agada 8.4 Muṣvadi agada 8.5 Panḥashirisha agada 8.6 Viṣḥaghna mahakashaya (Charaka Samhita) 8.7 Ekaṣara gana (Sushruta Samhita) ♦ ♦</p> | 2 | |
| 9 | <p>Sthavara visha – Poisons of Plant origin 9.1. Cardiac Poisons - Vatsanabha, Karaveera, Digitalis, Tobacco and Cerbera odollam.</p> | 2 | 17 |

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| | 9.2. Neurotoxic Poisons- Kupeelu, Ahiphena, Dhattura, Bhanga. 9.3. Irritant Poisons - Jayapala, Gunja, Bhallataka, Arka, Snuhi, Langali. | | |
| 10 | Sthavara Visha – Poisons of Metallic origin 10.1. Arsenic. 10.2. Mercury. 10.3. Lead. 10.4. Copper | 2 | |
| 11 | Jangama Visha 11.1. Sarpa visha 11.2. Loota visha 11.3. Vṛischika visha 11.4. Mushika visha and its contemporary relevance. 11.5. Alarka visha and its contemporary relevance. 11.6. Keeta visha 11.7. Vector borne diseases. ♦ | 2 | |
| 12 | Kritrima visha 12.1. Inorganic Acids – Sulphuric acid, Hydrochloric acid, Nitric acid. 12.2. Organic Acids - Oxalic acid, Carbolic acid, Formic acid. 12.3. Alkalies - Potassium hydroxide and Sodium hydroxide. 12.4. Asphyxiants – Carbon monoxide, Carbon dioxide. 12.5. Non-metallic poisons – Phosphorous, cyanide 12.6. Hydrocarbons – Kerosene. 12.7. Agrochemical Poisoning – Organo-phosphorus compounds, Carbamates, Organo-chlorine compounds, Aluminium phosphide. 12.8. Household poisons. | 3 | 12 |
| 13 | Substances of abuse 13.1. Madya and madatyaya, Alcoholism. 13.2. Addiction - Alcohol, Bhang, Opioids, Tobacco and Digital addiction. 13.3. Drugs of abuse- Lysergic acid diethylamide (LSD) and 3,4-Methylenedioxy methamphetamine (MDMA). 13.4. Narcotic Drugs and Psychotropic Substances (NDPS) Act. | 3 | |

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| 14 | Agada Tantra perspectives on cancer 14.1. Toxic carcinogens. 14.2. Toxicities due to chemo and radiotherapy and its Ayurvedic approach. 14.3. Agada and visha dravya prayoga in the prevention and management of cancer along with its research updates. | 3 | |
| 15 | Forensic medicine (Vyavahara Ayurveda) and Medical jurisprudence (Vidhi vaidyaka): 15.1 Forensic Medicine and Medical Jurisprudence. 15.2 Introduction to Indian Penal Code, Indian Evidence Act and Criminal Procedure Code. | 1 | 10 |
| 16 | Vaidya sadvritta : Duties and Responsibilities of medical practitioner 16.1 Vaidya sadvritta, medical ethics and code of conduct, Charaka oath and Hippocratic oath. 16.2 NCISM - constitution, objectives and functions. 16.3 Duties, rights and privileges of a registered medical practitioner. 16.4 Consent, professional secrecy and privileged communication. 16.5 Professional negligence, professional misconduct and unethical practices. 16.6 Defenses in medical negligence suits. 16.7 Medical records. 16.8 Consumer Protection Act. | 1 | |
| 17 | Legal Procedures 17.1. Courts and their powers 17.2. Inquest, evidence and witnesses 17.3. Court procedures: summons, oath, recording of evidence and conduct money. 17.4. Conduct of a medical professional in the court of law. | 1 | |
| 18 | Personal identity 18.1. Identification data 18.2. Age 18.3. Race, religion, sex. 18.4. Moles, tattoos, scars, occupational marks & hairs. 18.5. Hand writing, dactylography, DNA typing and superimposition | 1 | |
| 19 | Thanatology 19.1. Death 19.2. Signs of death. 19.3. Medicolegal autopsy and exhumation. 19.4. The Transplantation of Human Organs and Tissues Act (THOTA). | 2 | 12 |
| 20 | Asphyxial deaths 20.1. Hanging. 20.2. Strangulation and suffocation 20.3. Drowning. | 2 | |

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| 21 | Injury 21.1. Basics of injury 21.2. Mechanical injury 21.3. Firearm injury 21.4. Thermal injury 21.5. Dowry death | 2 | |
| 22 | Pregnancy, delivery and abortion 22.1 Medico-legal aspects of pregnancy, delivery, infanticide and battered baby syndrome. 22.2 Abortion, Medical Termination of Pregnancy (MTP) Act and Pre-Conception and Pre-Natal Diagnostic Techniques (PCPNDT) Act. 22.3 Medico-legal aspects of artificial insemination and surrogacy. | 3 | 6 |
| 23 | Sexual offences 23.1. Rape 23.2. Medico-legal aspects of sexual offences 23.3. Protection of Children from Sexual Offences (POCSO) Act | 3 | |
| 24 | Forensic psychiatry. 24.1. Common symptoms associated with psychiatric disorders 24.2. Lucid interval 24.3. Civil and criminal responsibilities of a mentally ill person 24.4. Mental Health Act (MHA) | 3 | 7 |
| 25 | Forensic science laboratory 25.1. Hierarchy and major divisions of forensic lab services. 25.2. Newer techniques and recent advances - polygraphy, narcoanalysis, DNA profiling. | 3 | |
| 26 | Laws, Acts, Rules and Regulations 26.1 Clinical Establishments Act 26.2 State AYUSH registration board rules and regulations. 26.3 Medicare Service Persons and Medicare Service Institutions (Prevention of violence and damage or loss to property) Act, 2008. 26.4 Drugs and Cosmetics Act and Rules – Schedules related to poison. 26.5 The Occupational Safety, Health and Working Conditions Code, 2020 26.6 Employees State Insurance Act, 1948. 26.7 Rights of Person with Disability Act, 2016. | 3 | |
| Total Marks | | | 100 |

| Lecture hours | Non-Lecture hours | FACULTY | MONTH |
|---------------|-------------------|-----------------------|-------------------|
| 8 | 1 | Dr.Vishal wagh | Oct/Nov |
| 5 | 4 | dr.shubhangi nalawadw | october |
| 3 | 2 | dr.vidya ahire | November/december |
| 7 | 2 | dr.avinash aher | january |
| 4 | 2 | dr.vishal wagh | december |

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| 2 | 5 | dr. vishal wagh | april+may |
| 6 | 2 | dr.avinash aber | april+may |
| 1 | 0 | dr. vishal wagh | june |
| 4 | 2 | dr. vishal wagh | june+july |

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| 4 | 2 | dr. vishal wagh | august |
| 10 | 6 | dr.avinash aher | august |
| 2 | 0 | dr. vishal wagh | october(diwali holidays) |
| 4 | 3 | dr.avinash aher | Oct/Nov |

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| 2 | 4 | dr. vishal wagh | november |
| 1 | 0 | dr.avinash aher | December |
| 6 | 4 | dr.avinash aher | february/march |
| 4 | 4 | dr.vishal wagh | january/upto 15 feb |
| 2 | 2 | dr.vishal wagh | february/march |
| 6 | 2 | dr. avinash aher | may+june |
| 4 | 2 | dr. vishal wagh | september |

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| 5 | 3 | dr.avinash aher | september |
| 2 | 3 | dr.avinash aher | november |
| 2 | 1 | dr. vishal wagh | december |
| 2 | 2 | dr.avinash aher | december |
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| 1 | 0 | dr.avinash aher | december |
| 3 | 2 | dr. waghdravin | january |
| 100 hr | 60 hr | | |