

Dravyaguna Vigyan

PAPER-I

NAMARUPA VIGYANA

1. Importance of Namagyana of Dravya, origin of Namarupagyana of Aushadhi in Veda, etymological derivation of various names and synonyms of Aushadhi.
2. Rupagyana in relation to Aushadhi. Sthula and Sukshma description (Macroscopic and Microscopic study) of different parts of the plant.
3. Synonyms of dravyas(aushadha and Ahara) mentioned in Vedic compendia, Brihatrayee, Bhavaprakasha and Rajanighantu.
4. Basonyms, synonyms and distinguish morphological characteristic features of medicinal plants listed in Ayurvedic Pharmacopoeia of India(API).
5. Knowledge of Anukta dravya (Extrapharmacopial drugs)with regards to namarupa.
6. Sandigdha dravya(Controversial drugs) vinischaya.
7. Knowledge of biodiversity, endangered medicinal species.
8. Knowledge of TKDL, Introduction to relevant portions of Drugs and cosmetic act, Magic remedies Act, Intellectual Property Right (IPR) and Regulations pertaining to Import and Export of Ayurvedic drugs.
9. Knowledge of tissue culture techniques
10. Knowledge of Genetically Modified Plants

PAPER –II

GUNA KARMA VIGYAN

1. Fundamental principles of drug action in Ayurveda and conventional medicine.
2. Detailed study of rasa-guna- virya- vipaka-prabhava and karma with their applied aspects and commentators (Chakrapanidatta, Dalhana, Arunadatta, Hemadri and Indu) views on them.
3. Comprehensive study of karma as defined in Brihatrayee & Laghutrayee
4. Detailed study of Guna and Karma of dravyas listed in API and Bhavaprakasha Nighantu along with current research review.
5. Detailed study of aharadravya/ ahara varga ascribed in Brihatrayee and various nighantus along with Kritanna varga.
6. Pharmacological principles and knowledge on drugs acting on various systems.
7. Basic knowledge on experimental pharmacology for the evaluation of - analgesic, anti pyretic, anti inflammatory, anti diabetic, anti hypertensive, hypo lipidemic, anti ulcer, cardio protective, hepatoprotective, diuretics, adaptogens, CNS activites.
8. Knowledge on Heavy metal analysis, pesticidal residue and aflatoxins
9. Knowledge on evaluation of anti microbial and antimycotic activities.

PAPER – III

PRAYOGAVIGYANA

1. Bhaishjya Prayog Siddhant [Principles of drug administration] - Bhaishajya Marga (routes drug administration), Vividha Kalpana (Dosage forms), Principles of Yoga Vijnan(of compounding), Matra (Dosage), Anupana (Vehicle), Aushadha grahankal (Time of drug administration), Sevankal avadhi (duration of drug administration), Pathyapathya (Dos'/Donts' /Contraindications), complete Prescription writing (Samagra Vyavastha patraka).
2. Samyoga- Viruddh Sidhanta and its importance
3. Amayika prayoga (therapeutic uses) of important plants ascribed in as well as Brihatrayee, Chakradutta, Yoga ratnakara and Bhavaprakasha.

4. Knowledge of Pharmaco-vigilance in Ayurveda and conventional system of medicine.
5. Knowledge of clinical pharmacology and clinical drug research as per GCP guide lines.
6. Knowledge of Pharmacogenomics

PAPER- IV

NIGHANTU & YOGA VIGYANA

1. Etymology of nighantu, their relevance, utility and salient features.
2. Chronological history of the following Nighantus with their authors name, period and content-
Paryaya ratnamala, Dhanvantari nighantu, Hridayadipika nighantu, Ashtanga nighantu, Rajanighantu, Siddhamantra nighantu, Bhavaprakasha nighantu, Madanpala nighantu, Rajavallabha nighantu, Madhava Dravyaguna, Kaiyadeva nighantu, Shodhala nighantu, Saligram nighantu, Nighantu ratnakara, Nighantu adharsha and Priya nighantu
3. Detailed study Aushadha kalpana mentioned in Sharangadhara samhita and Ayurvedic Formulary of India (AFI).
4. General awareness on poshaka ahara(Nutraceuticals),Varnya(cosmoceuticals), food additives, Excipients etc.
5. Knowledge of plant extracts, colors, flavors and preservatives.
6. Review of important modern works on classical medicinal plants published by Govt of India, department of AYUSH and ICMR.

Reference Books-

1. RigvedasyaAushadhiSuktam -sayanaBhashyaSahitam
2. Relevant portion of classical texts of charak, sushrut and Vagbhata
3. All available Nighantus
4. DhanvantariNighantuRajanighantuSahit
5. Sharangadharsamhita
6. Yogaratnakar
7. Dravyagunavigyanam -YadavjiTrikamji Acharya
8. Dravyagunavigyanam - AcharyaPriyavat Sharma
9. Aushadhigunavigyanam - Pt. VishvanathDwivedi
10. KriyatmakAushadhParichayaVigyan - Pt. VishvanathDwivedi
11. AbhinavButiDarpana - RoopalalVaishya
12. Aushadhiguadharmashashtra - Pt. GangadharShashtriGune
13. BhavaprakashaNighantu - Dr. K.C. Chunekar
14. Vedon Main dravyagunashashtra -VishvanathDwivedi
15. NighantuAdarshPurvardha&Uttarardha -BapalalVaidya
16. UnaniDravyagunaAdarsha - Hakim Daljit Singh
17. AyurvedkiAushadhiyanAurUnka Vargikaran - VishvanathDwivedi
18. AushadhiVigyanShashtra - VishvanathDwivedi
19. Glossary of vegetable drugs in Bruhatrayi - ThakarBalvant Singh &Chunekar

20. Some Contravertial drug in Indian Medicine -Dr. BapalalVaidya
21. Books on Dravyaguna by conemporaryauthars
22. Books on Pharmacognosy
23. Books on General, Experimental & clinical Pharmacology
24. Ayurvedic Pharmacopoeia of India & Other Pharmacopoeias of the world
25. Indian Pharmacopoeia
26. All the classical Text related to medicinal plants
27. All the scientific Publications on Medicinal Plants
28. Journals on Medicinal Plants
29. Different Flora.
