



**(From Academic Year 2012-13 & onwards)**

**Syllabus for MD/MS (Ayurved) Preliminary Examination**

**4. DRAVYAGUNA VIGYAN**  
**(Materia Medica & Pharmacology)**

**PAPER-II**

**THEORY- 100 marks**

**PART-A**

**50 marks**

- 01** Panchamahabhuta siddhanta, Samanya Visheshha siddhanta, Tridosha siddhanta.  
Extensive study on classifications of Dravya as described in Brihatrayi.
- 02** Applied aspects of Rasa, Guna, Virya, Vipaka and Prabhava
- 03** Applied aspects of Aushdha karma with reference to Sharngadhara and Bhavaprakasha
- 04** Importance of Namarupa vigyan and concept of basonyms and synonyms of Dravyas
- 05** Applied knowledge of Bhaishajya Prayoga (marga, kalpana, matra, anupana, sevan, kala etc.)

**PART-B**

**50 marks**

- 01** Basic principles of Desha pravichara, Dravya sangrahana (collection), Samrakshana (preservation)
- 02** Evolution of Dravyaguna vigyan with special emphasis on Nighantus
- 03** Prashasta bsheshaj lakshana
- 04** Profound knowledge on applied aspects of Agrya aushadha
- 05** Methodology of studying controversial, pratinidhi (substitute), apamishrana (adulterant) and unidentified dravya
- 06** Pharmacognosy and its relevance in Dravyaguna vigyan
- 07** An integrated study of Charakokta Bsheshaj pariksha and scientific method of drug evaluation with special reference to quality, safety and efficacy

- 08 Brief knowledge and importance of clinical pharmacology
- 09 General principles of various good cultivation practices, collection practices, storage practices and manufacturing practices
- 10 Pharmacovigilance and ADR issues
- 11 Knowledge on the Ayurvedic Pharmacopoeia of India, The Formulary of India and international pharmacopoeias

## PRACTICAL

**100 marks**

### Contents:

- 01 Field visits for the Identification of important classical medicinal plants  
(Minimum two visits to neighboring forest areas)
- 02 Macroscopic and microscopic identification of minimum two plants of each of prajoyyanga (useful parts of plants)
- 03 Preliminary study of pharmacopoeial standards (API) of minimum 5 plants
- 04 Minimum two experiments on Animals

### Distribution of marks (Practical)

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|----|--|------------|
| 01 | Herbarium sheets (Minimum 25)  | -10 Marks  |
| 02 | Practical of macroscopic and microscopic identification of prajoyyanga (one part of the plant) (Minimum 5 Plants)              | - 30 Marks |
| 03 | Practical record book of pharmacopoeial standards and animal experimentations (only observations of 2 animal experimentations) | -10 Marks  |
| 04 | Spotting (15 spots each of 2 marks)  | -30 Marks  |
| 05 | Viva-voce  | -20 Marks  |

### Format of Question Paper

#### PART -A

Q. No.	Nature of Questions	Division of Marks	Total Marks
1	L.A.Q.	15x2	30 Marks
2	S.A.Q. Attempt any 4 out of 5	5x4	20 Marks
<b>Total</b>			<b>50 Marks</b>

#### PART-B

Q. No.	Nature of Questions	Division of Marks	Total Marks
1	L.A.Q.	15x2	30 Marks
2	S.A.Q. Attempt any 4 out of 5	5x4	20 Marks
<b>Total</b>			<b>50 Marks</b>

### REFERENCE BOOKS:

- |                                   |                                   |
|-----------------------------------|-----------------------------------|
| 1 Abhinav Buti Darpan (Vol.1-2)   | - Vd. Roop Lal Vaishya            |
| 2 Aushadna Vigyana Shastra        | - Acharya Pt. Vishvanatha Dwidevi |
| 3 Ayurvediya Aushadnkarma vigyana | - Acharya V.J. Thakur             |
| 4 Bedi Vanaspati Kosha            | - Prof. Ramesh Bedi               |
| 5 Bhaishajyaguna Vigyana          | - Dr. Alakhnaran Singh            |
| 6 Bhav Prakash Nigantu (English)  | - Shreekanthamurti                |

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|----|--|--|
| 7  | Bhav Prakash Nighantu                                | - With Vd. Krishna Chandra Chuneekar commentary        |
| 8  | Bhrinad dravyagunadarsha                             | - Mahendra Kumar Shastri                               |
| 9  | Classical Uses of Medicinal Plants                   | - Acharya Priyavrata Sharma                            |
| 10 | Controversial Medicinal Plants                       | - Vd. G. Bapa Lal                                      |
| 11 | Dalhana Ka Dravyaguna Shastra Ke Kshetra Me Yogadana | - Vd. Shiv Kumar Vyas                                  |
| 12 | Dravyaguna Kosha                                     | - Acharya Priyavrata Sharma                            |
| 13 | Dravyaguna Sutram                                    | - Acharya Priyavrata Sharma                            |
| 14 | Dravyaguna Vigyana                                   | - Dr. Gyanendra Pandey                                 |
| 15 | Dravyaguna Vigyana(Vol. 1-2)                         | - Acharya Yadavji Tikram Ji                            |
| 16 | Dravyaguna Vijyana                                   | - Dr. V.M. Gogate                                      |
| 17 | Dravyaguna Vigyana (Vol. 1-5)                        | - Acharya Priyavrata Sharma                            |
| 18 | Dravyaguna Shastrum                                  | - Vaidya G.A. Phadake                                  |
| 19 | Dravyaguna Vijyana                                   | - Dr. A.P. Deshpande                                   |
| 20 | Dravyagunavijnana basic Principles                   | - Prof.D.S.Lucas                                       |
| 21 | Forgotten Healers (Indian Medicinal Plants)          | - Dr. Prakash Pranjape                                 |
| 22 | Glossry of Vegetable Drugs in Bhritrtrayis           | - Thakur Balwant Singh & Vd. Krishna Chandra Chuneekar |
| 23 | Introduction to Dravyaguna                           | - Acharya Priyavrata Sharma                            |
| 24 | Kriyatamka Aushadi Parichaya                         | - Acharya Pt. Vishvanath Dwidevi                       |
| 25 | Materia Medica                                       | - Acharya Ghosh  |
| 26 | Nighantu Adarsh (Vol. 1-2)                           | - Vd. Bapa Lal   |
| 27 | Pharmacological basis of Medical Practice            | - Goodman & Gillman                                    |
| 28 | Pharmacology and Pharmacotherapeutics                | - Satoskar Bhandarkar & Ainapure                       |
| 29 | Prayogatamaka Dravyaguna Vigyana                     | - Dr. Maya Ram Uniyal                                  |
| 30 | Priya nighantu                                       | - Acharya Priyavrata Sharma                            |
| 31 | Raspanchaka/Dravyaguna Siddhanta                     | - Prof. Shivcharan Dhyani                              |
| 32 | System of Plant Nomenclature in Ayurveda             | - Dr. Gyanendra Panday                                 |
| 33 | Text Book of Pharmaconogy                            | - Trees & Valis  |
| 34 | Textbook of Dravyaguna                               | - Dr.K.Nishteswar                                      |
| 35 | Unani Dravyaguna Vigyana                             | - Hakim Daljeet Singh                                  |
| 36 | Useful parts of Charaka, Sushurut, and Vagbhata.     | -  |
| 37 | Uttarakand Ki Vanaspatiya                            | - Dr. Gyanendra Pandey                                 |
| 38 | Vanoaushadi Darshika                                 | - Thakur Balwant Singh                                 |
| 39 | Vanoaushadi Nidarshika                               | - Dr. Ram Sushil Singh                                 |
| 40 | Vedic Vanaspatiyam                                   | - Dr. Dinesh Chandra Sharma                            |
| 41 | Pharmacopia of India –all the volumes                |  |
| 42 | Database on medicinal plants all the volums of CCRAS |  |
| 43 | Aurveda formulary of india – all the volums          |  |
| 44 | All the nighantoos                                   |  |
| 45 | Laghutrayi   |  |

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