

THE WEST BENGAL UNIVERSITY OF HEALTH SCIENCES
HOMOEOPATHY (POST GRADUATE DEGREE COURSE) M. D. (HOM)
COURSE CURRICULUM UNDER THE NEW SYLLABUS AS PER AMENDED
REGULATIONS OF CENTRAL COUNCIL OF HOMOEOPATHY
SUBJECT: HOMOEOPATHIC PHARMACY

PAPER – I

Homoeopathic Pharmacy – Theory (100 marks)

Section-I

Philosophy and Development of Homoeopathic Pharmacy

- a) History of Pharmacy in general with a special emphasis to Homoeopathic Pharmacy.
- b) Principles of Homoeopathy, its chronology of Development, Integration of above principles in Homoeopathic Pharmacy,
- c) Post-Hahnemannian Homoeopathic Pharmacy

Knowledge of Drug Substance (Pharmacognosy and Pharmacology)

- a) Basic Knowledge of allied sciences (Botany including Taxonomy and Phytochemistry, Chemistry and Zoology) for identification of drug substances.
- b) Scientific names, Common names, Synonyms, and Abbreviations of various Homoeopathic drugs.
- c) Classification of drugs according to Kingdom, Phytochemical, Physiological, Toxicological and Specific Therapeutic wise..
- d) Knowledge of pace, depth, intensity, Pharmacological action, & miasmatic action of important Homoeopathic Drugs.
- e) Collection, and preservation of Homoeopathic drugs according to kingdom.
- f) Sources, classification, uses and standardization of vehicles.

Section-II

Homoeopathic Drug Proving

- a) Hahnemannian Homoeopathic drug proving and its merits and demerits
- b) Modern Human Pathogenetic Trials - Protocol and Methodology.
- c) Publication of Authentic Materia medica and Repertory
- d) Reproving and Clinical verification of Homoeopathic medicines.

Homoeopathic Pharmaceutics

- a) Hahnemannian and HPI methods of preparation of drug.
- b) Homoeopathic Potentisation – Hahnemannian and Post-Hahnemannian methods.
- c) Scales of Potentisation.

***Drug Proving:** A drug proving / re-proving may be attempted of minimum 1 drug by each student

***Drugs for pharmacological Study:** A family wise study may be attempted from all available sources.

PRACTICAL including VIVA VOCE: (50 marks)

The practical examination will cover all the aspects of Homoeopathic pharmacy

1. Spotters 5x2=10

2. Preparation of Homoeopathic medicines 1x15=15

1. Estimation water content of a drug.
2. Preparation of Homoeopathic medicines like potencies, triturations
3. Preparation of External applications
4. Testing Impurities of vehicles
5. Testing of active constituents

VIVA VOCE: (25 MARKS)

MD (Hom)- Homoeopathic Pharmacy - PART II

PAPER - I : Main subject - Homoeopathic pharmacy (100 Marks)

SECTION-I

Principles of Posology and Dispensing

- a) Difference between Homoeopathic posology and posology of other systems of medicine.
- b) Principles of posology.
- c) Various kinds of dose and selection of dose and repetition of dose.
- d) Principles and methods of dispensing of Homoeopathic Medicines.

Pharmaceutical Analysis

- a) Techniques and instrumentations for the quality analysis of raw material and finished products, like Column chromatography, TLC, Paper Chromatography, HPLC, HPTLC, UV-Visible Spectroscopy
- b) Standardization of Vehicles and other raw materials
- c) Standardization of finished products.

SECTION-II

Homoeopathic Pharmacopoeias

Historical back.ground and importance of various Homoeopathic pharmacopoeias

- a) German Homoeopathic pharmacopoeia,

- b) British Homoeopathic pharmacopoeia,
- c) American Homoeopathic pharmacopoeia,
- d) Homoeopathic pharmacopoeia of United States
- e) French Homoeopathic pharmacopoeia etc.
- f) A special reference to Homoeopathic Pharmacopoeia of India (All volumes) and M Bhattacharya's Homoeopathic Pharmacopoeia.
- g) A Comparison may be made with other AYUSH Pharmacopoeias.

PAPER – II: Main subject - Homoeopathic Pharmacy (100 MARKS)

SECTION-I.

Experimental Pharmacology

- a) Animal House Facility – Guidelines, Ethical requirements for drug studies on animals and human beings.
- b) Physiological data on laboratory animals.
- c) Composition of some physiological salt solutions
- d) Toxicology studies. ED-50, LD-50
- e) Development of new drugs
- f) Mechanism of drug action and factors modifying drug action
- g) Absorption, distribution of Drugs Bio-transformation and excretion of Drugs
- h) Bio-availability of drugs, Adverse Drug Reaction (ADR)
- i) Animal behavioural models for Testing
- j) Models for learning and memory processes
- k) Experiments on Isolated and Intact preparations (*in vivo* studies)
- l) Administering the homoeopathic medicines in animal experiments to know the biochemical and cellular level activities.

Industrial Pharmacy (Pharmaceutics) and Pharmaceutical Management

- a) Different dosage forms and new drug delivery systems.
- b) Metrology and calculations.
- c) Packing of pharmaceuticals.
- d) Milling and Size separation/grading of powders.
- e) Mixing and Homogenisation.
- f) Extraction process.
- g) Drying process.
- h) Sterilization process.

A student of Homoeopathic Pharmacy should have the basic knowledge of important aspects of -Production Management, Finance Management, Material Management, advertising and Marketing Management, Human Resource Management, Drug Store Management and Costing & Pricing.

SECTION-II

Drugs Laws and Legislation Related To Homoeopathic Pharmacy

- a) The drugs and cosmetic act 1940 (23 of 1940); and Rules 1945,
- b) The prevention of illegal traffic in narcotic drugs and psychotropic substances act 1988 (46 of 1988) ,
- c) The drugs control act 1950 (26 of 1950),
- d) The drugs and magic remedies (objectionable advertisement) act 1954 (21 of 1954) ,
- e) The medicinal and toilet preparation (excise duties) act 1955 (16 of 1955) ,The poison act 1919 (12 of 1919),
- f) The Homoeopathic Central Council act 1973 (59 of 1973);
- g) The pharmacy act 1948 (8 of 1948)

A general idea about the rules and regulation made under the above said Central acts and amendments made afterwards on the subject and concerned state acts and regulation.

PRACTICALS (Students may be trained in the following areas as far as possible)

Pharmacognosy

- a) Pharmacognostic study of organized drugs and unorganised drugs.
- b) Estimation of moisture content of plant
- c) Determination of extractive values of crude drug
- d) Phytochemical screening of drugs, with ethanol and water extracts
- e) Modern Extraction Processes

Pharmaceutical Analysis

- a) Identification and detection of impurities in the sample of Distilled water, Ethyl alcohol and Sugar of milk.
- b) Quality control tests for raw materials and finished products.
- c) Chromatographic techniques
- d) Spectroscopic methods

Industrial Pharmacy

- a) Preparation of Homoeopathic medicines with Decimal, Centesimal and Fifty millesimal scales.
- b) Preparation of Mother Tincture, Mother Solutions and Triturations according to Hahnemannian methods
- c) Preparation of Mother Tincture by Modern methods.
- d) Preparation of Globules, Tablets and Ointments.

Experimental Pharmacology

1. Experiments on Intact and isolated preparations
2. Toxicological studies.

***Drugs for pharmacological Study: A family wise study may be attempted from all available sources.**

PRACTICAL including VIVA VOCE: (200 marks)

The practical examination will cover all the aspects of Homoeopathic pharmacy

Spotters: 10x2=20

At least minimum of 10 spotters from different sources of Homoeopathic medicine, instruments from pharmaceuticals and examination of different parts of plants (cut section of stem, root and leaves)

Analytical test: 10x2=20

Analytical test of drug substance and its identification

Preparation of Homoeopathic medicines 1x30=30

1. Estimation water content of a drug.
2. Preparation of Homoeopathic medicines like potencies, triturations
3. Preparation of External applications
4. Testing Impurities of vehicles
5. Testing of active constituents
6. Physical properties of drug
7. Micro-analysis of drug substances
8. Preparation suppositories
9. Preparation of simple syrup
10. Chromatographic analysis
11. Specific gravity of Alcohol

Assignments: (3): 10

Herbarium: 10

Minimum of 30 dried plants specimen of both exogenous and endogenous in nature to be prepared

Practical record - 10

Experiments in pharmacognosy, experimental pharmacology, pharmaceuticals and pharmaceutical analysis to be completed.

Viva Voce: 100

***Note: This curriculum may be amended as and when required by this University.**