

VEER NARMAD SOUTH GUJARAT UNIVERSITY, SURAT.

First B.H.M.S.

HOMOEOPATHY

Organon of Medicine and Principles of Homoeopathic Philosophy

INTRODUCTION TO SCHEME OF HOMOEOPATHY

Organon & Hom Philosophy is a vital subject which builds up the conceptual base for the Physician. It illustrates those principles which when applied in practice enable the Physician to obtain results, which he can explain rationally and repeats them in practice with greater competence. Focus of the Education and Training should be to build up the conceptual base.

Homoeopathy should be introduced as a **Complete Rational System of Medicine** with its Holistic **Individualistic** and **Dynamistic** approach to life, Health, Disease, Remedy and cure.

In order to achieve this, study of logic, psychology and the fundamentals of Homoeopathic Science become quite important.

It is imperative to have clear grasp over Inductive-Deductive Logic, and its application and comprehending the fundamentals of Homoeopathic Science. Homoeopathic approach for the patients is a Holistic approach. Science demands from the Homoeopathic Physician, to comprehend his patient as a PERSON, his dispositional state of Mind (and Body), along with the disease process with its causes. Since we lay great emphasis on knowing the mind, knowledge of the psychology becomes imperative for a Homoeopathic Physician. Thus introduction to Psychology will assist HOMOEOPATHIC student to build up his conceptual base in his direction.

I. Fundamental of Homoeopathic Science

Preliminary lectures on the evolution of medicinal practice by the ancients giving stress to rationalistic and vitalistic thoughts.

1. Short history of Hahnemann's life and contributions.
2. Brief life and contributions of early pioneers after Hahnemann.
3. Brief study of the early history of spread of homoeopathy & position of Homoeopathy in various countries.
4. Hahnemann's Organon of Medicine from aphorism 1 to 70
5. Fundamental Principles of Homoeopathy.
6. Health; Hahnemann's and modern concept.
7. Introductory lectures on disease, their classification, drug disease, case taking and drug proving.

II. Logic

The term 'Logic' means 'thought' 'reason' 'Law' and is used to denote the totality of rules to which the process of thought is subjected, a process that reflects the reality. It is also used to denote the science of the rules of reasoning and the forms in which it occurs.

As discussed earlier, to comprehend ORGANON-PHILOSOPHY, it is essential to acquaint with understanding of LOGIC in order to grasp inductive-deductive reasoning.

III. Introduction to Psychology:-

1. Definition of Psychology - as a Science and its differences from other Sciences
Concept of Mind - Contemporary schools of psychology with special reference to Behavioristic and psychoanalytic approaches.
2. Scientific study of behavior, intelligence, cause - effect relation - behavioristic (Pavlov, Watson, Skinner) and dynamics of behavior (Freud and Neo Freudians).
3. Basic concepts of sensation, perception, illusion, Hallucination, Delusion, image, intelligence, aptitude, attention, thinking and memory.
4. Emotion, motivation, personality, anxiety, conflict, frustration, psycho-somatic manifestations and dreams.
5. Developmental psychology - normal developments since birth to maturity (both physical and psychological) and deviations-its effects on later behavior.
6. *The attempt should be made to make a student receptive to various terms in teachings of Materia Medica and Homoeopathic Philosophy.

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HOMOEOPATHY

Hahnemann's Organon of Medicine Aphorism: 1 to 145

The purpose of Homoeopathic case taking is not merely collection of symptoms but comprehending the **PERSON IN WIDER DIMENSIONS** with the correct appreciation of the factors responsible for the genesis and maintenance of illness i.e. **Fundamental Cause, PREDISPOSING CAUSE, MAINTENANCE CAUSE & ONE SIDED DISEASES.**

There should be compulsory case taking term for each student wherein he learns to build up **PORTRAIT** of the disease by undertaking:-

- (i) Evolutionary study of the patient comprising of well defined characteristics.
- (ii) Studying individual in His life-span and in relation to his family environment and work.
- (iii) Processing of the interview and the entire case so as to grasp the principles of **MANAGEMENT** of these patients.

He should be taught to classify various symptoms which he has elicited in his case taking. He puts down his evaluation of those characteristics. His capacity for analysis and synthesis should evolve. In appendix, Analytical paper for symptom classification and Evaluation is attached. If practiced properly, has potential to improve analytical faculty of the student.

Physician, Teaching Staff, R.M.O. and House Staff shall spend enough time with the students and interns and scrutiny of their written cases, discussing mode of interview and processing of the case.

There should be standardization in imparting training in **ANALYSIS AND EVALUATION**. Each Institute shall keep the standard guide-lines of Case-taking.

GUIDELINES ANALYSIS - EVALUATION OF OBJECTIVES OF ANALYSIS EVALUATION OF SYMPTOMS.

- (1) To individualize the case so as to prepare in effective totality which allows us to arrive at the **SIMILIMUM**, prognosis the case, and advise management and impose necessary restrictions on mode of life and diet.
- (2) To infer about state susceptibility by appreciating the quality of characteristics state of susceptibility and diagnosis about miasmatic state would allow physician to formulate comprehensive plan of treatment.
- (3) Order of evaluation of the characteristics, of the case would become stepping stone for the reportorial totality.

(iii) CLASSIFICATION OF SYMPTOMS: Their scopes and limitations in arriving as a totality.

Symptom should not be considered superficially at its face value. It should be analyzed and evaluated by taking into account following factors.

- (i) Through grasp over the underlying dynamics:
(Psychological, Physiological, Pathological aspects)
- (ii) This would demand thorough comprehension over the evolution of DISEASE, taking into account FUNDAMENTAL, EXCITING & MAINTENANING CAUSES.
- (iii) Knowledge of socio-cultural background is quite imperative for correct analysis and evaluation. Details regarding SYMPTOMATOLOGY can be comprehended by referring to the classical books in philosophy.

The Department of Organon & Philosophy while training in Case Taking shall co-ordinate with various other departments where student is sent for the pre-clinical and clinical training. This would ensure not only streamlining of the clinical Canters but also cultivate Homoeopathic perspective when student is attending other special clinics.

EVALUATION - EXAMINATION

1. Student's performance shall be evaluated periodically. There shall be periodical card tests and internal (theory and practical) examinations in each academic year. The concerned teaching staff shall file his general report on the conduct of internal examinations and also on student's performance, which shall be discussed in departmental and interdepartmental meetings.
2. Each student appearing for II and III BHMS shall maintain one journal comprising of 20 cases (10 short and 10 long cases) with complete processing of the case material for each examination which shall be evaluated by the head of the department.
3. There shall be provisions for the internal assessment of all these examinations and journal work in the Final II and III BHMS examinations respectively.

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HOMOEOPATHY

When student enters third year, he has already grasped basic Sciences of Anatomy, Physiology, Pathology and has been introduced to Clinical Medicine, Surgery, Gynaecology and Obstetrics. Organon including Philosophy is the subject which builds up the conceptual base for the physician. It illustrates those principles which when applied in practice enable physician to obtain results which he can explain rationally and repeats them in practice with greater competence. Focus of the Education & Training should be to build up this conceptual base. This can be delivered effectively if there is proper integration of various disciplines various knowledge throughout the subject of ORGANON-PHILOSOPHY.

(I) HAHNEMANN'S THEORY OF CHRONIC DISEASE

Proper emphasis should be made on the way in which each miasmatic phase evolves and the characteristic expressions which are thrown off at various level. This will bring out characteristic PATTERN of each miasm.

Definite attempt should be made to understand theory of CHRONIC MIASM in the light of our knowledge of basic sciences of ANATOMY, PHYSIOLOGY, PATHOLOGY & MEDICINE. This would demand CO RELATION OF HOMOEOPATHIC PHILOSOPHY with allied sciences.

Teacher should bring out clearly therapeutic implications of THEORY OF CHRONIC MIASM in practice. This will demand comprehension of EVOLUATION OF NATRUAL DISEASE. from miasmatic angle. This will required to be correlated with applied Materia Medica. Here you demonstrate how various drugs would come up in Psoric, Sycotic and syphilitic state of the clinical diseases.

Thus ORGANON & PHILOSOPHY will bring out effectively integration of Anatomy, Physiology Psychology, Pathology, Clinical Medicine, Materia Medica and Therapeutics. This would demand greater interdepartmental co-ordination.

(II) HAHNEMANN'S ORGANON OF MEDICINE VTH & VITH EDITIONS (including Aphorism 1 to 294)

- (a) Kent's lectures, Robert and Stuart close works in Philosophy.
- (b) POSOLOGY.
- (c) DIET, ANCILLARY MODE OF TREATMENT
- (d) INTRODUCTION OF REPERTORY

Student should maintain journal of 20 cases wherein thoroughly worked out cases from their clinic attendance would be there.

Cases should demonstrate student's work on: CASE TAKING - CASE ANALYSIS - EVALUATION-DISEASE, DIAGNOSIS-MIASM-POSOLOGY-REMEDY SELECTION.

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HOMOEOPATHY

Here the focus is on applied aspect of Organon & Philosophy. Maximum emphasis shall be given on practice oriented teaching of Organon and Philosophy.

This can be effectively achieved by studying the various cases taken by students in OPD & IPD.

Case analysis, evaluation and synthesis takes into account the application of entire ORGANON from Aphorism 1 to 294 and all principles of Philosophy as illustrated in I, II, III BHMS.

More emphasis to be given on case taking, case analysis, evolution, posology miasmatic diagnosis, potency selection and repetition of doses, second prescription, diet, regimen and other pressures with principle of management during OPD and IPD visits, so that the students can have the practical knowledge of the treatment and management of the patient.

The following topics shall be taught during IV BHMS in depth:-

1. History of Medicine.
2. History of Homoeopathy, its spread to different countries.
3. Life and living environment.
4. Concepts of health and factors modifying it.
5. Concept of susceptibility and vital reaction.
6. Concept of disease and totality of symptoms.
7. Concepts of Drug, Medicine and Remedy.
8. Concept of Cure and Disease and Drug relationship.
9. Scope and limitations of different modes of employing medicines in disease Antipathy, Allopathy and Homoeopathy.
10. Various methods of classification and evaluations of symptoms common and characteristic, General and particular.
11. Concepts of incurable disease, suppression and palliation.
12. Prophylactics.
13. Scope and limitations of Homoeopathy.
14. Remedy response, prognosis after administration of a remedy.
15. Principles and criteria for repetition and selection of potency.

Paper I - Topics from 1 - 15

Paper II - Topics from Kent's lectures,

Stuart close and Roberts Philosophy

Case taking at bedside.

APPENDIX

Purpose of the Homoeopathic Case Taking is not merely collecting the symptoms but comprehending the person in wider dimensions, with correct appreciation of the causes for the illness.

The adequacy in Case Taking and Physical examination should be judge from the following angle:-

- (1) To carry out successful individualization of the case and to conclude about state of the susceptibility.
- (2) Finding out a simillimum with correct potency and doses
- (3) Prescribing proper diet to the patient.
- (4) Advising the management of the case.
- (5) The pathology and homoeopathy prognosis.

Anatomy and Physiology

Study of Normal Man in Pre clinical Period.

Human economy is the most difficult of all sciences to study. Man is a conscious mentalised, living being and functions as a whole. Human knowledge has become so vast that for precise comprehension of man as a whole development of different branches of science like anatomy physiology and psychology was necessary. But such a division is only an expedient; man nevertheless remains indivisible.

Consciousness, life and its phenomena cannot be explained in terms of cell physiology or of quantum mechanics nor by physiological concepts which in their turn are based on chemico-physical concepts.

Though anatomy physiology are nitherto being taught as entirely different subjects, a water-tight barrier should not be erected between them; structure (anatomy) and function (physiology) are but correlated aspects and the physio-chemical processes are but an external expression of an inexplicable phenomenon which is life.

So anatomy and physiology shall be taught with the following aims:-

- (i) to provide for the understanding of the morphological physiological and psychological principles which determine and influence the organism of the living body as a functioning unit;
- (ii) to co-relate and interpret the structural organism and normal physiology of the human body and thus to provide the data on which to anticipate disturbance of functions;
- (iii) to enable the student to recognize the anatomical and physiological basis of the clinical signs and symptoms of disorders due to injury, disease and mal development;
- (iv) similarly, to give the student to understand the factors involved in the development of pathological processes and the possible complications which may arise there from;
- (v) to give the student such knowledge on pre clinical subjects as will enable him ultimately to employ competently and rationally all the ordinary methods of examination and treatment (including surgery) that may involve such knowledge; and
- (vi) for enabling the student to pick out strange, rare and uncommon symptoms from pathognomic symptoms for individualisation of patients and drugs for the purpose of applying the law of similar in Homoeopathy practice.

Anatomy

Instructions in anatomy shall be so planned as to present a general working knowledge of the structure of the human body. The amount of detail which he is required to memorize should be reduced to the minimum. Major emphasis should be laid on functional anatomy of the living subject rather than on the static structures of the cadaver, and on general anatomical positions and broad relations of the viscera, muscles, blood-vessels, nerves and lymphatic. Study of the cadaver is only a mean to this end. Students should not be burdened with minute anatomical details which have no clinical significance.

Though dissection of the entire body is essential for the preparation of the student for his clinical studies, the burden of dissection can be reduced and such saving of time can be effected, it considerable reduction of the amount of topographical details is made and the following points:-

1. Only such details as have professional or general educational value for the medical student should be presented to him.
2. The purpose of dissection is not to create technically expert prosecutors but to give the student an understanding of the body in relation to its function, and the dissection should be designed to achieve this end, for example, ignoring of small and clinically unimportant blood vessels results in such clearer dissection and a much clearer picture of the main structures and their natural relationships.
3. Much that is at present taught by dissection could be demonstrated as usefully through prepared dissected specimens.
4. Normal radiological anatomy may also form part of practical training. The structure of the body should be presented linking functional aspect.
5. Actual dissection should be preceded by a course of lectures on the general structure of the organ or the system under discussion and then its function. In this way anatomical and physiological knowledge can be presented to students in an integrated form and the instruction of the whole course of anatomy and physiology made more interesting, lively and practical.
6. A good part of the theoretical lectures on anatomy can be transferred to tutorial classes with demonstrations.

A few lectures or demonstration on the clinical and applied anatomy should be arranged in the later part of the course. They should preferably be given by a clinician and should aim at demonstrating the anatomical basis of physical signs and the value of anatomical knowledge to the clinician.

Seminars and group discussions to be arranged periodically with a view to presenting different subjects in an integrated manner.

Formal class room lectures to be reduced but demonstration and tutorials to be increased.

There should be joint teaching-cum-demonstration sessions with clinical materials illustrating applied aspect of Anatomy in relation to clinical subjects. This should be arranged once a fortnight and even form part of series of introductory lectures if be needed.

There should be joint seminars with the departments of Physiology and Bio-chemistry and should be organized once a month. There shall be a close correlation in the teaching of gross Anatomy, Histology, Embryology and Genetics. The teaching of areas and system in Anatomy, Physiology including Bio-chemistry shall be integrated as far as possible.

THEORETICAL

A complete course of human anatomy with general working knowledge of different anatomical parts of the body. **Emphasis should be laid down on the general anatomical positions and broad relations of the viscera, muscles, blood vessels, nerves and lymphatic** **Candidates should not be burdened with minute anatomical details of every description** which has no clinical significance.

Candidates will be required to recognize anatomical specimen and to identify and answer questions on structures displayed in recent dissections, to be familiar with the bones and their articulations including the vertebrae, the skull and with the manner of classification of the long bones.

Emphasis will not be laid on minute details except in so far as is necessary to the understanding or in their application to medicine and surgery. Candidates are expected to know the attachments of muscles sufficiently to understand their action, but not be precise details of the origin and insertion of every muscle. A knowledge of the minor details of the bones of the hand, foot, their articulations and details of the small bones of the skull will not be required.

The curriculum of Anatomy should be divided under the following headings:-

- I. Gross Anatomy - to be dealt under the following categories:-
 - (a) Introductory lectures with demonstrations.
 - (b) Systematic series.

The study to be covered by deductive lectures, lecture, demonstrations, surface and radiological anatomy, by dissection of the cadaver and study of dissected specimen knowledge thus obtained together with co-relation of facts should be integrated into living anatomy. Details of topographical relation should be stressed for these parts which are of importance in general practice.

- (i) Superior extremity, inferior extremity, head, neck, thorax, abdomen and pelvis to be studied regionally and system by system (special reference to be made to development and its anomalies, regional, innervation functional groups of muscles in relation to joints of otherwise and Applied Anatomy)
 - (ii) Endocrine organs with special references to **development** and applied anatomy.
- II. Development anatomy - General principles of development and growth and the effect of hereditary and environment factors to be given by lectures, charts, models and slides.
- III. Neuro-anatomy, Gross Anatomy of brain and spinal cord and the main nerve tracts. The peripheral nerves. Cranial nerves their relations course and distributions.
Autonomic nervous system-Development and anomalies, applied Anatomy.

The study to be covered by lectures, lecture-demonstrations of brain and cord, and clinical co-relation.

N.B.:- The practical study should proceed the study physiology nervous system, Early co-relation with the clinical course desirable.

IV. Micro anatomy (Histology)- Modern concepts of cell, epithelial tissue, connective tissue, muscular tissue, nervous tissue and systemic structure.

(A) Introductory Lectures:-

- (a) Modern conception of cell-components and their functions, why a cell divides, cell division, types with their signification.
- (b) Genetic individuality:-
 - (i) Elementary genetics definition, health and diseases, result of interaction between organism and its environments, utility of knowledge from homoeopathic point of view.
 - (ii) Mandel's laws and their significances.
 - (iii) Applied genetics.

(B) Embryology

(C) General anatomy & Micro-anatomy

(D) Regional anatomy - Regional Anatomy shall be taught with emphasis on developmental anatomy, broad relationship, surface marking, Radiological anatomy, and applied anatomy.

(a) Extremities:-

- (i) Skeleton, position and functions of joints
- (ii) Muscle groups, lumbar plexus,
- (iii) Arterial supply, venous drainage, neuro vascular bundles, lymphatic and lymph nodes, relation of nerves to bones.
- (iv) Joints with special emphasis on lumbo - sacral, hip, knee and ankle joints, muscles producing movement, results of nerve injury.
- (v) Radiology of bones and joints. Classification, determination of age.
- (vi) Applied anatomy.
- (vii) Surface marking of main arteries, nerves.

(b) **Thorax:-**

- (i) Skeleton of joints, of muscles, of chest wall-diaphragm, innervation of abdominal and thoracic respiration, different with age. The mammary gland, lymphatic drainage.
- (ii) The pleura & lungs.
- (iii) Arrangements structures in the mediastinum, heart, coronary artery great vessels, trachea, oesophagus, lymph nodes, thymus.
- (iv) Radiology of heart, aorta, lungs, bronchogram.
- (v) Surface marking-pleura, lungs, heart-valves of heart, border, arch of aorta, superior venacava, bifurcation of trachea.

(c) **Abdomen and pelvis:-**

- (i) The abdominal wall - skin and muscles, innervation of fascia, peritoneum, blood vessels, lymphatics, autonomic ganglia and plexuses.
- (ii) Stomach, small intestine, caecum, appendix, large intestine.
- (iv) Duodenum, pancreas, kidneys, uterus, supra-renals.
- (v) Liver and gall bladder.
- (vi) Pelvis, skeleton and joints, muscles of the pelvis, organs internal and external genitalia in male and in the female, lumbosacral plexus, vessels, lymphatics, autonomic ganglia, and plexuses.
- (vii) Blood vessels and nerve plexuses of abdomen and pelvis, the portal venous system.

- (viii) Applied anatomy of referred pain, portal systemic anastomosis, catheterization of the urinary bladder in the male and female.
- (ix) Surface marking of organs and blood vessels.

(d) Head and neck:-

- (i) Scalp-Innervation, vascular supply middle meningeal artery.
- (ii) Face-main muscles groups, muscles of facial expression muscles of mastication, innervation of skin and repair muscles, vascular supply, principles of repair scalp and face wrinkles.
- (iii) The eyelids, eyeball, lacrymal apparatus, the muscles that move the eyeball.
- (iv) The nasal cavity and nasopharynx, septum, conchae, paranasalsinus, Eustachian tube, lymphoid masses.
- (v) Oral cavity and pharynx.
- (vi) Larynx and laryngeal part of Pharynx structure (No details) functions, nerve supply, laryngo-scopic appearances.
- (vii) Cervical vertebrae, joints of head and neck.
- (viii) Structures of neck, sternomastoid, brachial plexus, main arteries and veins, disposition of lymph nodes, areas of drainage, phrenic nerve, thyroid gland and its blood supply, para-thyroid, the trachea, oesophagus. The position of the Sub-mandibular and sublingual salivary glands.
- (ix) Teeth and dentition
- (x) The external, middle and internal ear.
- (xi) Applied anatomy.
- (xii) Surface marking: Parotid gland, middle meningeal artery, thyroid gland, common internal and external carotid arteries.

(e) Neuro anatomy:-

- (i) Meanings-functions of
- (ii) Cerebrum-areas of localization, vascular supply basal ganglion, internal capsule.
- (iii) Cerebellum-functions
- (iv) Pons, medullar midbrain, cranial nerves, palsies.
- (v) Cerebro-spinal fluid-formation, circulation function, absorption.
- (vi) Cranial nerves, origin, courses (with minimum anatomical details) areas of distribution;
- (vii) The sympathetic and parasympathetic nervous system location, distribution, function.
- (viii) Applied anatomy of lumbar puncture, referred pain, spinal anesthesia, increased intra cranial pressure.

(E) Histological study systemic

PRACTICAL

Demonstration of dissected parts/Dissection of the whole human body.

Identification of histological specimen of tissues and organs viz., liver, kidney, lungs, thyroid pancreas, spleen, trachea, oesophagus, stomach, tongue, intestine, large intestine, testes, every bone, adipose tissue, spinal cord, suprarenal gland, parotid gland, anterior pituitary salivary glands, skin, parathyroid gland, cerebellum, cerebral cortex, cardiac muscle.

The written paper in Anatomy shall be distributed as follows:-

Paper I	-	Upper extremity, head, face, Neck, brain and Embryology.
Paper II	-	Thorax, abdomen, pelvis, lower extremity and Histology.

PHYSIOLOGY INCLUDING BIOCHEMISTRY

The purpose of a course in physiology is to teach the functions, processes and inter-relationship of the different organs and systems of the normal disturbance in disease and to equip the student with normal standards of reference for use while diagnosing and treating deviations from the normal. To a Homoeopath the human organism is an integrated whole of body life and mind; and though life includes all the chemico-physical processes it transcends them. There can be no symptoms of disease without vital force animating the human organism and it is primarily the vital force which is deranged in disease. Physiology shall be taught from the stand point of description physical processes underlying them in health.

There should be close co-operation between the various departments while teaching the different systems. There should be joint courses between the two departments of anatomy and physiology so that there is maximum co-ordination in the teaching of these subjects.

Seminar should be arranged periodically and lectures of anatomy, physiology and bio-chemistry should bring home the point to the students that the integrated approach is more meaningful.

THEORETICAL

Introductions

Fundamental phenomena of life. The cell and its differentiation. Tissues and organs of the body.

Bio-chemical Principles

Elementary constituents of protoplasm, Chemistry of proteins, carbohydrates and lipids, Enzymes.

Bio-physical Principles

Units of concentration of solutions, ions, electrolytes and non-electrolytes filtration, diffusion, ultrafiltration, dialysis, surface tension, absorption, hydrotrophy, domain equilibrium colloid, acid-base concentration.

Environmental Physiology

1. Skin - structure and functions
2. Regulations of body temperature hypothermia.

Skelato - Muscular System

1. General introduction and classification of muscle fibers.
2. Excitation-contraction coupling and molecular basis of contraction.
3. Properties of skeletal muscles and factors affecting development of tension.
4. Energy metabolism of muscles.

Nerve

1. Structure and function of nerve cell.
2. Bioelectric phenomena in the nerve and muscle. R.M.P., Action and its propagation, neuromuscular transmission.
3. Classification and properties of nerve fibers.
4. Wellerian degeneration, regeneration and reaction of degeneration.

Blood

1. Composition and functions in general
2. Physiology of plasma proteins, normal values, E.S.R.. & other blood indices.
3. Physiology of R.B.C., W.B.C. and platelets formation, fate and physiological and functions of formed elements of blood.
4. Body fluid compartments, their measurements, blood volume and its regulation.
5. A.B.O. and RH. Blood group systems.
6. Lymphatics and R.E. system.
7. Coagulation & haemostasis.

Cardio Vascular System : (C.V.S.)

1. Structure and properties of cardiac muscle.
2. Generation and conduction of cardiac impulse, E.C.G. (Normal)
3. Cardiac cycle with reference to pressure, volume changes, heart sounds etc.
4. Heart rate and its regulations.
5. Haemodynamics, B.P. and its regulation.
6. Nervous and chemical control of blood vessels.
7. Physiological basis of shock

Respiratory System

1. Introduction, general organization
2. Mechanics of respiration, compliance
3. Pulmonary volumes and capacities
4. Pulmonary and alveolar ventilation
5. Physical principles of gaseous exchange and transport of respiratory gases.
6. Nervous and chemical control of respiration.
7. Hypoxia, acclimatization, cyanosis, dyspnoea, asphyxia, abnormal respiration.
8. Pulmonary function tests.
9. Effect of high and low atmospheric pressure effect of respiration on circulation, artificial respiration.

Digestive System

1. General introduction, Organisation plan and evolutionary significance.
2. Composition, function and regulation of salivary, gastric pancreatic intestinal and biliary's secretions.
3. Movements of G.I. tract
4. Absorption of G.I. tract
5. Physiology of Liver and Gall bladder structure and functions.

Excretory System

1. General Introduction, structure and functions of kidney.
2. Mechanism of formation of urine.
3. Mechanism of concentration and dilution of urine.
4. Physiology of micturation.

Endocrine

1. Physiology of pituitary, thyroid, parathyroid, pancreas adrenal cortex and adrenal medulla.
2. Regulation of secretion of endocrine glands.

Reproduction

1. Introduction in general and types of reproduction
2. Physiology of testes and ovaries.
3. Physiology of menstruation, pregnancy and lactation.
4. Placenta and its function, foetal circulation and respiration

Central Nervous System

1. General Organization, structure and function of nerve cell and neuralgia.
2. Cerebrospinal fluid.
3. Physiology of synapse and receptor organs.
4. Physiology of reflex action - classification properties etc. of reflexes.
5. Sensory and motor tracts and effects of sections transaction & hemisection of the spinal cord.
6. Spinal, decerebrate and decorticate preparations and Regulations of posture and equilibrium.
7. Reticular formation.
8. Cerebellum and basal ganglia.
9. Sensory and motor cortex.
10. Physiology of voluntary movements.
11. Higher functions of cortex: sleep and wakefulness, EEG, memory, speech, learning.
12. Physiology of thalamus and hypothalamus and limbic system.
13. Physiology of autonomic nervous system, peripheral and central mechanism.

Special Senses

1. Physiology of taste and smell sensation.
2. Ear-General anatomy, conduction of sound waves through external, middle and internal ear.
3. Peripheral and central mechanism of hearing and auditory pathways.
4. General anatomy refractory media and protective mechanisms in Eye.
5. Formation, circulation and functions of aquous humor.
6. Physiology of optics, Formation of image, accommodation errors of refraction, acuity of vision.
7. Physiology of retina photographer functions, dark and light adoption, photochemistry of vision, color vision.
8. Visual pathway and effects of various levels.

Nutrition

1. Balanced diet and special dietary requirements during pregnancy, lactation and grown.

BIOCHEMISTRY

Biochemistry principles and elementary constituents of protoplasm

Chemistry of proteins

Chemistry of carbohydrates

Chemistry of lipids.

Enzymes and vitamins

Metabolism of proteins, fats carbohydrates, minerals. Biophysical process and their principles in relation to human body.

LIST OF PRACTICALS IN PHYSIOLOGY

1. Method of Collection of Blood.
2. Haemoglobinometry
3. The Microscope-Construction; Use & Care
4. Total White Blood Cell Count.
5. Differential WBC count.
6. Packed Cell Volume.
7. Packed Cell Volume.
8. Calculation of Blood Indices
9. E.S.R.
10. Bleeding Time
11. Clotting Time
12. Blood Groups.
13. History taking and General Examination
14. Examination of Alimentary System.
15. Examination of the Cardiovascular system
16. Pulse.
17. Determination of Arterial Blood Pressure in Humans and effect of posture, exercise and Cold stress.
18. Clinical Examination of the Respiratory system, E.C.G.
19. Stethography
20. Spirometry
21. Examination of Higher Functions
22. Cranial Nerves
23. Motor Functions
24. Reflexes
25. Sensory system
26. Recording of Body Temperature

LIST OF DEMONSTRATION

1. Varieties of Stimuli: Faradic or Induced and Galvanic or Constant Current: Apparatus Used in the Laboratory
2. Excitability of Muscle
3. Effect of Graded Stimuli
4. Simple Muscle Twitch, Effect of temperature on the muscle
5. Effect of two successive stimuli on the Skeletal Muscle of Frog.
6. Genesis of Tetanus
7. Fatigue
8. Effect of Fee and after Loading on Frog's Gastrocnemius Muscle
9. Heart Block
10. Properties of Cardiac Muscle
11. Perfusion of Mammalian Heart and effect of various ions on it
12. Effect of stimulation of Vago sympathetic Trunk and Crescent on Frog's Heart.
13. Effect of Acetylcholine on Heart.
14. Effect of Adrenaline on Frog's Heart.

15. Action of Nicotine on Frog's Heart.
16. Photokinetic stimulation, Ophthalmoscopy and Tonometry.
17. Recording Mammalian blood pressure and respiration and study of factors influencing them.
18. Specific Gravity of Blood.
19. Gastric Analysis

PRACTICAL IN BIOCHEMISTRY

1. Introduction to Biochemistry and familiarization with laboratory Instruments.
2. Study of Disaccharides-Lactose. Maltose & Sucrose.
3. Study of Polysaccharides-Starch, Dextrin & Glycogen.
4. Introduction of Proteins
5. Normal Urine report (Inorganic and Organic Constituents)
6. Unknown solutions - Study.
7. Quantitative & Estimation of Glucose in Urine.

Paper - I

Element of Biophysics, Biochemistry, Blood and lymph, Cardiovascular system, Reticulo endothelial system, spleen, Respiratory system Excretory System, Skin, regulation of body temperature, sense organs.

Paper - II

Endocrine organs, nervous system, nerve muscles physiology, Digestive system and metabolism, Biochemistry of protein, carbohydrate and lipid, enzymes, Nutrition.

Practical Examination

1. Examination of Physical and chemical constituents of normal and abnormal urine (qualitative)
2. Enumeration of total cell count of Blood (R.B.C. or W.B.C.) or differential count of peripheral blood or estimation of percentage of HB.
3. Viva-voce on instruments and apparatus.
4. Biochemistry examination of proteins/carbohydrate/lipoid.
5. Experimental physiology.
6. Laboratory Note-Book.
7. Viva-voce on experiments.

HOMOEOPATHIC PHARMACY

Theory

Instruction in Homoeopathic Pharmacy should be so planned as to present general working knowledge of an industry and dispensing various preparation. Major emphasis should be laid on evolution and relationship of Homoeopathic Pharmacy to Organon and Materia Medica, the concept of drug Proving and Dynamisation.

The curriculum of Homoeopathic Pharmacy should be divided under following headings:-

Part - I

Orientation to subject - elementary history of Botany, Zoology and Chemistry with rules of their nomenclature and their respective terminologies.

- (1) (A) Explanation of terms like a common names, synonyms, Hyponyms, typonyms, invalid names.
- (B) Advantages and disadvantages of Commercial names and Botanical names.
- (C) Anomalies in the nomenclature of Homoeopathic Drugs.
- (2) Schools of Medicine: their discovery, principles pharmacology and Materia Medica, scope and limitations.
- (3) History of the art and science of Pharmaceutics.
- (4) Literature on Homoeopathic Pharmaceutics.
- (5) Sources of Homoeopathic Pharmacy.
- (6) Homoeopathic Pharmacy: its speciality and originality
- (7) Importance of the knowledge of Pharmacy.
- (8) Sources of knowledge about curative powers of the technique of Drug proving in Homoeopathy.
- (9) Aspects of Pharmacy.
- (10) Relation of Pharmaceutics with other sciences.
- (11) Inter-relationship of different schools of Pharmacy with emphasis on relationship of Allopathic and Homoeopathic Pharmacy.
- (12) Properties of Drugs.
- (13) (a) Routes of Administration of drugs in general.
- (b) Routes of Administration of Homoeopathic remedies.
 - a. Action of Drugs.
 - b. Uses of Drugs.

Part II

Explanation and definitions of:-

- (a) Foods, Poisons, cosmetics.
- (b) Drug substance, Drug, Medicine, Remedy,
- (c) Pharmacy. Pharmacology and Pharmacopoeia, Pharmacodynamics and other related terms used in relation to the subject. Homoeopathic Pharmacopoeia,

Homoeopathic Pharmacy in relation to:-

- (a) Organon of Medicine Aphorism 264 to 285.
- (b) Materia Medica.
- (c) National Economy.

Pharmacy and Pharmacopoeia; its Sources and relation with other sciences. Classification of Homoeopathic Medicines according to their.

- (a) Botanical and
- (b) Zoological natural orders.

English name of each medicine.

Common names in Indian Languages like Assamese, Bengali, Hindi, Gujarati, Kannad, Konkani, Maithili, Malayalam, Marathi, Sanskrit, Tamil, Telgu, Urdu, Oriya etc. with emphasis on the students learning the common names of their region.

Posology

Homoeopathic Posology: Its logic, advantages and dis-advantages.
 Potentisation: Its logic, scientificity and evolution and scales.

Vehicles

Scales for preparation of drugs.

Pharmacological Action of Polychrest medicines (50 medicine list attached)

Abbreviations used in prescription writing.

Legal part: legislation in respect of Homoeopathic Pharmacy, Drugs and Cosmetic Act, Poison Act, Pharmacy Act.

Practical

- (1) Identification, and uses of Homoeopathic Pharmaceutical instruments and appliances and their cleaning.
- (2) Identification of important Homoeopathic drugs vide list attached.
 - (i) Macroscopic study of 30 drugs substances and listed in Appendix I,
 - (ii) Collection of 30 drugs substances for herbarium.
 - (iii) Microscopic study of two triturations up to 3x potency.
- (3) Estimation of moisture content of one drug substance with water bath.
- (4) Purity test of ethyl, alcohol, distilled water, sugar of milk, including determination of specific Gravity of distilled water and alcohol.
- (5) Estimation of size of globule, its medication of milk sugar and distilled water-making of doses.
- (6) Preparation and dispensing and dilute alcohol solutions and dilutions.
- (7) Preparation of mother tinctures of 3 polychrests.
- (8) Preparation of triturations of 3 crude drugs upto 3X.
- (9) Preparation of mother tinctures and solutions other than 10 percent Drug strength.
- (10) Potentisation of 3 mother tinctures upto 6 decimal scale and 3 centesimal scale.
- (11) Trituration of 3 drugs upto 6x and their conversion into liquid potenties.
- (12) Preparation of external applications-one of each.
- (13) Writing of prescriptions and dispensing of the same.
- (14) Laboratory methods:-
 - (a) Sublimation
 - (b) Distillation
 - (c) Decantation
 - (d) Filtration
 - (e) Crystallization
 - (f) Percolation.
- (15) Visit to a Homoeopathic Laboratory to study the manufacture of drugs on a large scale.

APPENDIX

PHARMALOGICAL ACTION

1. Aconite nap
2. Adonis vernalis
3. Allium cepa
4. Argentum nit
5. Arsenic alb
6. Belladonna
7. Cactus G
8. Cantharis
9. Cannabis ind
10. Cannabis sat
11. Cinchonna of
12. Coftea crud
13. Crataegus
14. Crotalus hor
15. Gelsemium
16. Glonoine
17. Hydrastis can
18. Hyoscynamus n
19. Kali bich
20. Lachesis
21. Lithium carb
22. Mercurius cor
23. Naja
24. Nitric acid
25. Nux vomica
26. Passifiora incamata
27. Stannum met
28. Stramonium
29. Stramonium
30. Tabacum

LIST OF DRUGS FOR IDENTIFICATION

I. VEGETABLE KINGDOM

1. Aegle folia
2. Anacardium orientale
3. Andrographis penniculata
4. Calendula offic
5. Cassia sophera
6. Cinchonna off
7. Cocculus indicus
8. Coffeea cruda
9. Colocynth
10. Crocus sativa
11. Croton tig

12. Cynodon
13. Ficus religiosa
14. Holerrhena antidysentrica
15. Hydrocotyle
16. Justisia adhatoda
17. Lobelia inflata
18. Nux vomica
19. Ocimum
20. Opium
21. Rauwolfia serpentine
22. Rheum
23. Saraca indica
24. Senna (cassia acutifolia)
25. Stramonium met
26. Vinca minor

II. CHEMICALS

1. Acetic acid
2. Alumina
3. Argentum metallicum
4. Argentum nitricum
5. Calcareo Carb
7. Carbo veg (charcoal)
8. Graphitis
9. Magnesium
10. Mercury (the metal)
11. Natrum mur
12. Sulphur

III. ANIMAL KINGDOM

1. Apis malefic
2. Blatta orientalis
3. Formica rufa
4. Sepia
5. Tarentula cubensis

HOMOEOPATHIC MATERIA MEDICA.

1. Homoeopathic materia medica is differently constructed as compared to other materia medica. Homoeopathy considered that study of the action of drugs on individual parts or systems of the body or on animals or their that it does not lead us to a full appreciation of the action of the medicinal agent; the drug agent as a whole is lost sight of.
2. Essential and complete knowledge of the drug action as a whole can be supplied only by qualitative synoptic drug action was a whole can be supplied only by qualitative synoptic drug experiments on healthy persons and this alone can make it possible to view all the scattered data in relation to the psychosomatic whole of a person; and it is just such as a person as a whole to whom the knowledge of drug action is to be applied.
3. The Homoeopathic materia medica consists of a schematic arrangement of symptoms produced by each drug, incorporating no theories or explanations about their interpretation or inter-relationship. Each drug should be studied synthetically, analytically and comparatively, and this alone would enable a Homeopathic student to study each drug individually and as a whole and help him to be a good prescriber.
4. Polychrests and the most commonly indicated drugs for every day ailments should be taken up first so that in the clinical classes or outdoor duties the students become familiar with their applications. They should be thoroughly dealt with explaining all comparisons and relationship. Students should be conversant with their sphere of action and family relationship.

The less common and rare drugs should be taught in outline, emphasizing only their most salient features and symptoms. Rare drugs should be dealt with later.

5. Tutorials must be introduced so that students in small numbers can be in close touch with teachers and can be helped to study and understand materia medica in relation to its application in the treatment of the sick.
6. While teaching therapeutics an attempt should be made to recall the materia medica so that indications for drugs in a clinical condition can directly flow out from the proving of the drugs concerned. The student should be encouraged to apply the resources of the vast materia medica in any sickness and not limit himself of memorize a few drugs for a particular disease. This Hahnemannian approach will not only help him in understanding the proper perspective of symptoms as applied and their curative value in sickness but will even lighten his burden as far as formal examination are concerned. Otherwise the present trend produces the allopathic approach to treatment of disease and is contradictory to the teaching of Organon.

Application of materia medica should be demonstrated from cases in the outdoor and hospital wards.

Lectures on comparative materia medica and therapeutics as well as tutorials should be as far as possible integrated with lectures on clinical medicine in the various departments.

7. For the teaching of drugs the college should keep herbariums sheets and other specimens for demonstrations to students. Lectures should be made interesting and slides of plants an materials may be projected.
8. A Introductory lectures : Teaching of the homoeopathic materia medica should include:
 - (a) nature and scope of Homoeopathic materia medica

(b) sources of Homoeopathic materia medica; and

(c) different ways of studying the materia medica.

B. The drugs are to be taught under the following heads:

1. Common name, natural order, habitat, part used, preparation.

2. Sources of drug proving.

3. Symptomatology of the drug emphasizing the characteristic symptoms and modalities.

4. Comparative study of drugs.

5. Complimentary, inimical, antidotal and concordant remedies.

6. Therapeutic applications (applied materia medica)

C A study of 12 tissue remedies according to Schussler's biochemical system of medicine.

APPENDIX-I

1. Aconitum nap
2. Aethusa cyan
3. Allium cepa
4. Aloe socotrina
5. Antimonium crud
6. Antimonium tart
7. Apis mel
8. Argentum nit
9. Arnica Montana
10. Bryonia alb
11. Chamomilla
12. Cina
13. Colchium autumn
14. Colocynth
15. Dulcamara
16. Euphrasia
17. Ipecac
18. Ledum pal
19. Nux Vomica
20. Rhus Tox
21. Calcarea flour
22. Calcarea phos
23. Calcarea sulph
24. Ferrum phos
25. Silicea

APPENDIX II

Syllabus of Materia Medica for the II., B.H.M.S. Examination

In addition to the list of drugs for the first B.H.M.S. Examination (Appendix I), the following additional drugs are included in the Syllabus of Materia Medica for the II B.H.M.S. Examination.

1. Acetic Acid
2. Acetaea Racemosa
3. Agaricus muscarious
4. Agnus Castus
5. Alumina
6. Ambra grisea
7. Ammonium Carb
8. Ammonium mur
9. Anacardium ori
10. Apocynum can
11. Arsnic album
12. Arsnic iod
13. Aurum met
14. Arum Triph
15. .Baptisia tinctor
16. Berberis vulg
17. Bismuth
18. Borax
19. Bromium
20. Bovista
21. Cactus g
22. Calcarea ars
23. Calendula
24. Camphora
25. Cantharis
26. Chelidonium maj
27. Conium mac
28. Digitalis per
29. Drosera
30. Ferrum met
31. Gelsemium
32. Helliborus
33. Hepar sulph
34. Ignatia
35. Kali Brom
36. .Kreosotum
37. Natrum Carbo
38. Nux moschata
39. Opium
40. Petroleum
41. .Phosphorus
42. Phytolocca
43. Plantina met
44. Sepia
45. Spongia tost

46. Veratrum alb
47. Kali mur
48. Kali phos
49. Magnesia Phos
50. Natrum sulph

APPENDIX IV

In addition to the drugs mentioned in Appendix I & II, the following additional drugs are included in the syllabus of Materia Medica for the 3rd BHMS Examinations-

1. Actea spicata
2. Adonis vernalis
3. Antimonium ars
4. Argentum metallicum
5. Asafoetida
6. Asterias rubens
7. Baryta carb
8. Benzoic acid
9. Belladonna
10. Bufo rana
11. Caladium
12. Calcarea carb
13. Cannabis indica
14. Cannabis sativa
15. Carbo vegetabilis
16. Causticum
17. Crotalus hor
18. Croton tig
19. Cuprum met
20. Cyclamen
21. Dioscorea villosa
22. Equisetum
23. Graphitis
24. Hyoscyamus n
25. Hypericum
26. Iodum
27. Kali carb
28. Kali sulph
29. Kalmia latifolia
30. Lachesis
31. Lycopodium
32. Mercurius sol
33. Mercurius cor
34. Mercurius sulph
35. Moschus
36. Murex
37. Muriatic acid

38. Naja
39. Natrum mur
40. Natrum phos
41. Nitic acid
42. Onosmodium
43. Oxalic acid
44. Petroleum
45. Phosphoric acid
46. Phypsostigma
47. Picric acid
48. Plumbum met
49. Podophyllum
50. Pulsatilla
51. Secale cor
52. Selenium
53. Staphisagria
54. Stramonium
55. Sticta P
56. Sulphur
57. Sulphuric acid
58. Symphytum
59. Symphilinum
60. Tabacum
61. Taraxacum
62. Terentula c
63. Teribinth
64. Thalapsi bursa
65. Theriodion
66. Thuja occ.
67. Thyroidinum
68. Vaccinum
69. Zincum met

APPENDIX IV

List of drugs included in the Syllabus of IV B. H. M. S. Examination.

1. Abies can
2. Abies nig
3. Abroma Augusta
4. Abrotanum
5. Acalypha indica
6. Anthracinum
7. Bacillinum
8. Baryta mur
9. Bellis per
10. Calotropis indica
11. Capsicum
12. Carbo animals

13. Carbolic acid
14. Carica papaya
15. Cassia saphora
16. Caulophyllum
17. Cedron
18. Cicuta virosa
19. Clematis
20. Cocculus indica
21. Coffea cruda
22. Collinsonia
23. Condurango
24. Corallium
25. Crataegus
26. Crocus sativa
27. Eupatorium per
28. Ficus religiosa
29. Flouric acid
30. Glonoine
31. Hellonius
32. Hydrastis can
33. Hydrocotyle
34. Jonosia asoka
35. Justicia adhatoda
36. Lac Can
37. Lac def
38. Liliun tig
39. Lithium carb
40. Lobelia inf
41. Lyssin
42. Magnesia carb
43. Magnesia mur
44. Medorrhinum
45. Melilotus
46. Mephitis
47. Mercurius cynatus
48. Mercurius dul
49. Mezerium
50. Mellifolium
51. Occimum sanct
52. Psorinum
53. Pyrogenum
54. Radium bromide
55. Ranunculus bulb
56. Raphanus
57. Ratanhia
58. Rauwolfia serpentine
59. Rheum
60. Rhododendron
61. Rumex
62. Ruta G

63. Sabadilla
64. Sabal serulatta
65. Sabina
66. Sambucus
67. Sanguinaria
68. Sanicula
69. Sarasaparilla
70. Spigelia
71. Squilla
72. Stannum met
73. Syzygium jambolanum
74. Trillium Pendulum
75. Urtica urens
76. Vaccinum
77. Variolinum
78. Veratrum viride
79. Vibrinum Opulus
80. Vinca minor
81. Vipera

GENERAL PATHOLOGY AND MICROBIOLOGY (INCLUDING PARASITOLOGY, BACTERIOLOGY AND VIROLOGY)

Study of Pathology must be in relation with Concept of Miasm as evolved by Dr. Hahnemann and further developed by Kent, Boger, Robert and Allen. Concept of Miasm in view of Pathology. Reference to Koch's Postulate. importance of susceptibility and immunity thereby homoeopathic concept of Disease and Cure.

Characteristic expression of each miasm.
 Classification of symptoms/disease according to Pathology.
 Correlation of Miasm and Pathology for e.g. Psora - inflammation etc.
 Natural evolution in Pathology.
 Resolution - Inflammatory exudative.
 Degeneration. Suppurative.
 Interpretation of Pathological report of all diseases and correlate the utility of it in.
 Homoeopathic system of Medicine.

Similarly all the topics in General Pathology and Systemic Pathology must be co-related, at each juncture, so that the importance of Pathology is understood by a Under-Graduate student in Homoeopathy.

Topics of General Pathology in Relation with Miasms.

Inflammation.	Repair Healing Injury
Immunity.	
Degeneration.	
Neoplasm.	
Thrombosis.	
Embolism.	
Oedema.	

Disturbance of Pigment Metabolism.
 Calcium Metabolism.
 Uric Acid Metabolism.
 Amino Acid Metabolism.
 Carbohydrate Metabolism.
 Fat Metabolism.
 Healing.
 Hypertrophy.
 Hyperplasia.
 Anaplasia.
 Metaplasia.
 Ischaemia.
 Haemorrhage.
 Shock.
 Atrophy.
 Relaxation.
 Hyperemia.
 Infection.
 Pyrexia.
 Necrosis.
 Gangrene.
 Infarction

SYSTEMIC PATHOLOGY.

In each system the important and common disease should be done by keeping in view of presentation, progress and outcome of the disease. For e.g. in Alimentary System

Tongue	Ulcer, Tumor
Oral Cavity	Thrush, Tumor
Oesophagus	Inflammatory Disease, Tumor
Stomach	Inflammatory Disease Auto Immune Disease Tumor
Duodenum	Inflammatory Disease, Acid Pepsin Digestion. Ulcers, Infection,
Intestine Small and Large	Tumor, Mal absorption. Inflammatory Disease
Appendix	Inflammatory Disease
Liver	Tumors Cirrhosis Jaundice Inflammatory Disease
Gall Bladder	Tumor Inflammatory Disease
Pancreas	Tumor Common Disorder

Cardio Vascular Disease	Common Disorders
Central Nervous Disease	Common Disease
Respiratory Disorders	Common Disorders
Kidneys	Tumors
	Urodynamics
Genitals Male and Female	Common Disorder
	Tumors
Skeletal and Muscular Disease	Common Disorders
Skin	Common Disorders, Melanoma, etc.
Clinical Pathology	Complete Haematology.

Practical

Clinical and Chemical Pathology:

Estimation of hemoglobin (by acidometry) - Count of R.B.Cs. and W.B.Cs. Staining of thin and thick films, differential counts and parasites.

Erythrocyte sedimentation rate, urine, physical, chemical microscopically, quantity of albumin and sugar, faeces-physical chemical (occult blood) add microcosmical for ova and protozoa.

Methods of sterilization, preparation of a media, use of microscope Gram and acid fast stains. Motility preparation. Gram positive and negative. positive and negative cocci and bacilli. Special stains for corynebacterium -gram and acid fast stains of pus and sputum.

Haconkey's plate-sugar reactions-gram and motility of gram negative intestinal bacteria, Widal and demonstration of pasteur and of spirochaetes by dark field illumination. Fountain's strain-Lovaditt's stain. Demonstration of Methods of nacrobiosis.

Histopathology

Common teaching slide from each systems, Demonstration of gross Pathological specimen. Practica demonstration of Histopathological techniques i.e. Fixation. Embedding.

Sectioning staining by common dyes and strain.

Frozen section. Its importance.

Electron Microscopy.

Phase contrast microscopy.

1. BACTERIOLOGY:

Morphology, biology, sterilization, chemotherapy, principles of artificial media, infection, defence reaction, immunity, hypersensitiveness, skin tests, systematic study of bacterial habits, importance-morphological, cultural, bio-chemical, serological and toxic behaviour of the common pathogenic and nonpathogenic species. Pathologic changes produced by diseases-bacteria and their laboratory diagnosis. Staphylococci, streptococci, diplococci, Neisseria, Mycobacterium tuberculosis (types)

Mycobacterium leprae, names and differentiation of spirochetes from pathogenic mycobacterium, corynebacterium diphtheriae. Aerobic spore bearing bacteria-Bacillus anthracis, anaerobes, general and special features of the pathogens. Names of some importance non-pathogens. Gram negative intestinal bacteria classification, identification of the pathogen Salmonella, Vibrio bacterium, Pasterurella, general idea about haemophiles, Pseudomonas, Brucella, Ricketsia, Proteus, spirochaetes-general idea details of Treponema pallidum and leptospiraictero haemorrhagica.

Viruses-general characters, classification of disease e.g. varecella, Rabies, Bacteriophage Kouch's postulates.

2. PARASITOLOGY:

Protozoa-classification names of important rhizopoda, Ent. histolytica, morphology, pathogenesis and pathogenesity, diagnosis, differences from Ent. coli sporozoa species of plasmodia life history and pathogenesis differentiation of species.

Mastigophora-general broad morphological features classification, oathogenesis. vectors, pathology of Kala-Azar, important features source Disease due to balantidium coli.

Helimnths-definition of certain terms, simple classification, differences between nematodes cestodoes and treamatodes Broad differentiating morphological features and broad life history and pathogenesis of important species. Cestoaes and Nematodes-infecting liver, lungs, intestines and blood-general differences between schislosomes and other trematodes

3. VIROLOGY:

Diagnosis of Infectious Diseases

Host Parasite Relationship.

Disinfectants. Mode of action.

Practical aspects of Immunology i.e. Application in diagnosis, Passive Immunization, Immunopathies in brief including AIDS

Bacteria Genetics (briefly) .

KIDNEY BLADDER URETER URETHRA

- Glemerulo Nephritis .
- Pyelonephritis .
- Tubercular Pyelonephritis .
- Nephrotic Syndrome.
- Metabolic Diseases and Kidney.
- Systemic diseases and Kidney. .
- Acute and Chronic Renal Failure
- Kidney Tumors
- Calculi.
- Cystitis.

Ureteric Stricture
Urethritis., Specific and Non Specific.
Renal Function Test in Relation to Homoeopathy.

CARDIO VASCULAR DISEASES

Ischaemic Heart Disease.
Rheumatic Heart Disease.
Valvular Heart Disease.
Hypertension.
Cardiomyopathy.
Infective Endocarditis.
Congestive Cardiac Failure.
Diseases of Pericardium.
Cardiogenic Shock.

MALE AND FEMALE GENITAL DESEASE

Testicular Tumors
Acute and Chronic Prostatitis
Prostatic Tumors.
Sterility
CA Penis
ovarian tumor
Fibroids
CA Cervix
Infertility
Endometriosis and Endometrium.
Breast Inflammation and Tumors.

RESPERATORY DISEASES

Pulmonary function test
Bronchial Asthma
Bronchitis
Bronchiactesis
Emphysema
Empyema
Cor. Pulmonari
Pneumonia
Bronchogenic Carcinoma
Interstitial Lung Diseases

GASTRO INTESTINAL DISEASES

Tongue, Stomatitis, Ulcers, Tumors
Oesophagus, Reflex Oesophagitis
Tumor of Oesophagus
Stomach, Gastritis, CA Stomach, Gastric Ulcers

Liver Cirrhosis, Hepatitis, CA Liver
Liver abscess.
Liver Function Test
Gall Stones
Pancreas Acute and Chronic Pancreatitis, CA pancreas
Intestines Ulcers, Duodenal colics, CA Colon and Rectum
Tumors
Mal absorption Syndrome
Infections
Appendix, Acute Appendicitis.

SKIN DISEASE

Infection And Tumors

BONES DISEAS

Sarcoma , Osteoma, Pagets Diseases
Osteomyelities , Tuberculer , Osteomyelitis
Rheumatoid Arthritis Osteo Arthritis

GENERAL NERVOUS SYSTEM

Meningitis Pyogenic/ Tubercular

CEREBRO SPINAL FLUID

Picture of various Diseases.

ENDOCRINAL SYSTEM

Thyroid Disease Mellitus.

Ist - PAPER GENERAL SYSTEMATIC PATHOLOGY AND MIASMS

IInd - BACTERIOLOGY, PARASITOLOGY AND CLINICAL PATHOLOGY

(Each Divided into Two Sections)

Pathology Practical

Experimental/Microbiological Spots Reading and Interpretation of Pathological Reports

VEER NARMAD SOUTH GUJARAT UNIVERSITY, SURAT.

Second B.H.M.S.

FORENSIC MEDICINE AND TOXICOLOGY

The subject is of practical importance to the students of homoeopathic medicine as homoeopathic physicians are to be employed by Government in areas where they may have to handle medico-legal cases, perform autopsies, apart from giving evidence in such cases. The training in forensic medicine at present conducted is inadequate to meet these needs

The course consist of a series of lectures and demonstration including:-

1. **Legal procedure**

Definition of medical Jurisprudence, courts, and their jurisdiction

2. **Medial ethics.**

Law relating to medical registration and medical relation between practitioner and the State. The Council of Homoeopathy Act, 1973 and the code of Ethics under it, the practitioners and the patients, Malpractices covering professional secrecy, the practitioners and the patients, Malpractices covering professional secrecy, the practitioner and the various legislations (Acts) Provincial and Union such as Workman's compensation Act, Public Health Act, Injuries Act, Child Marriage Registration Act, Borstal Schools Act, Medical Termination of Pregnancy Ac, Lunacy Act, Indian Evidence Act, etc.

3. **Forensic Medicine:**

Examination and identification of persons living and dead: Parts, bones, stains, etc. health: Medico-legal; purification, mummification; saponification, forms of death, causes, agencies, onset etc. Assaults, wounds, Injuries and death by violence. Asphyxial death, blood examination, blood stains, seminal stains; burns, scalds, lighting stroke etc. starvation, pregnancy, delivery, abortion, Infanticide, sexual crimes, Insanity in relation to the State life and accident insurance.

Toxicology

A separate course of lectures dealing poisoning in general, the symptoms and treatments of various poisons, post-mortem appearance and test should be given, study of the following poisons:-

Mineral Acid, corrosive sublimate arsenic and its compound alcohol, opium and its alkaloids, carbolic acid monoxide, carbon dioxide. Kerosene oil, cannabis indica, cocaine, belladonna, strychnine and nux vomica, aconite, oleander, snake poisoning, prussic acid, lead poisoning.

4. **Medico legal post-mortem:**

Recording post mortem appearance, forwarding materials to chemical examiner; Interpretation of laboratory and chemical examiner's findings. Students who are attending a course of lecture in forensic medicine should avail a themselves of all possible opportunities of attending medico-legal post-mortems conducted by the professors of forensic medicine. It is expected that each student should attend at least 10 post-mortems.

5. **Demonstration:**

- (1) Weapons
- (2) Organic & Inorganic poisons.
- (3) Poisonous plants.
- (4) Charts, diagram, models, x-ray films etc. of medico-legal interest.

PRACTICE OF MEDICINE

Homoeopathy has a distinct approach to the concept of disease. It recognizes an ailing individual by studying him as a whole rather than in terms of sick parts. It emphasizes the study of man from his state of health, **till** it **travels** to state of presenting illness, incorporating all major events and contributing factors in the process.

The individualization study as above needs following background so that striking aspects which are the characteristics to the individual become clear, in **contrast** to the common picture of the respective health disturbances.

1. Primary correlation of the health disturbance with basics of Anatomy - Physiology-Biochemistry. Knowledge of common evaluation of study about its causation, manifestation, maintenance, and prognosis details.
2. Knowledge of common evaluation of study about its causation, manifestation, maintenance, and prognosis details.
3. Knowledge about factors which will worsen and improve the disturbance, including various medicines and non-medical measures and respective possible response elucidation by application of all measures.

The study obviously emphasizes more on

- A. Compensation of Applied part.
- B. Sound clinical training at bedside to be able to apply the learning accurately.

These can lead towards developing a Homoeopathic Physician who will not be deficient at the practical Science of medicine. He should be trained in a manner in which he is not locked up in Rare syndromes as Theoretical Exercise. Exercises but as a sound clinician with adequate discrimination, sharp observation and conceptual clarity. He will then be able to mould an effective appreciation of the patient's picture utilizing his knowledge of Medicine.

To evolve the above, following distribution of Theory and Practical Training is suggested so that there is gradual but clear and firm comprehension

Course of study	3 years
	in 2nd (B H M S)
	in 3rd B H M S and
	in 4th B H M S

Examination to be conducted at the end of the IV (Fourth) BHMS. Also in the side of the topics are suggested co-ordinations (with other department) which will improve the caliber of imparting training in Medicine- The distribution is made keeping in mind about other subjects in II, III, and IV BHMS and the respective state of learning of student.

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IIND BHMS

- 1 Clinical method of examination of patients as whole
- 2 Respiratory disease. - Respective portion in surgery
- 3 Alimentary Tract and Pancreas Disease : Respective portion in surgery.

IIIRD BHMS

- 1 Genetic factors Chronic Disease and Miasms Dept.
- 2 Nutritional Disease. Nutrition, Hygiene in dept in
Community Medicine.
- 3 Immunological factors in disease : Epidemiology in depart. of
community medicine
- 4 Climate Factors in disease
- 5 Metabolic disease
- 6 Endocrinal Disease Menstrual Disorder in department of
Gynecology.

The above all need follow up with respective Therapeutics Topics also.

IVTH BHMS

- 1 Liver and Biliary Tract Diseases
- 2 Hematological Diseases..
- 3 Cardiovascular system Diseases
- 4 Kidneys & Urinary Tracts - Diseases
- 5 Water and Electrolytes balance - Diseases
- 6 Connective Tissue Disorders. Bones and Joints Disorders
- 7 Skin Diseases
- 8 CNS & peripheral nervous system - Mental Diseases
- 9 Acute Emergencies including poisonings
- 10 Pediatrics.

The above in these terms will require a follow up of strong and emphatic training on Homoeopathic Therapeutics for the same.

It will be conducted in IV (fourth) BHMS at the end of 3 years of course of study in Theoretical and Practical aspects of Medicine,

Eligibility for examination shall include submission of 10 complete case histories. 5 each being Prepared in III and IV BHMS.

PRACTICAL AND CLINICAL EXAMINATION

The examination procedure will include one case, to be prepared, and presented to the examiner, The examiners will put stress on

- 1 Comprehensive case Taking.
- 2 Bedside procedure Investigations for diagnosis
- 3 Principles of management

GENERAL GUIDENCE : THERAPEUTICS

Homoeopathy has a distinct approach to disease. Concept of individualization and concept of chronic miasm makes it distinct.

It recognizes an ailing individual by studying him as a whole rather than in terms of sick parts, emphasizes the study of man from the state of health i.e. DISPOSITION DIATHESIS DISEASE, taking into account all predisposing and precipitating factors i.e. FUNDAMENTAL CAUSE.. MAINTENING CAUSE & EXCITING CAUSE.

Hahnemann's theory of chronic miasm provides us an evolutionary understanding of the chronic disease: PSORA - SYCOSIS-SYPHILIS and acute manifestation of chronic disease shall be comprehended in the light of theory of chronic miasm. How our current Knowledge of Pathology and clinical medicine assist in defining this must be demonstrated.

Study of therapeutics does not mean simply list of specifics. For the clinical condition, but teaching of applied Materia Medica. Here we demonstrate how various drugs would come up in psoric, syctic, tubercular or syphilitic state of the clinical conditions. Thus emphasis would be in correlating pace of evolution of disease, peculiar, respectively and cluster of characteristics

Thus teaching of therapeutics of Hypertension would demand delineation of various phases of hypertension taking into account what is happening to the STRUCTURE and what kind of forms are thrown off. Psoric phase would be characterized by LABILE hypertension which shoots up under stress, especially with rise in systolic and manifesting flushes and emotional disturbances.

This would draw our attention to drugs like GELSEMIUM, GLONINE, FERRUM MET etc" This is the functional phase. Tubercular hypertension would be characterized by fairly high systolic and diastolic B.P. oscillating wildly at higher range, manifesting bleeding like epistaxis etc., with erratic mental state. This will draw attention to PHOSPHORUS, LACHESIS etc..

Syphilitic dimension would be characterized by immense destructive damage at target organs like heart, kidney and retina.

Thus teachings of THERAPEUTICS would essentially demand an effective correlation of:

- 1) Knowledge of clinical/Medicine/Surgery.
- 2) Appreciation of Natural disease its evolution in the light of Theory of chronic miasm. Thus correlation with Organon Philosophy.
- 3) Applied Materia Medica and Repertory:

Comprehending drug picture from the evolutionary angle - Boger's approach towards Materia Medica and its application for the study of various clinical patterns of Natural disease.

Correlation with MATERIA MEDICA and with REPERTORY.

PAPER 1: As per syllabus of II & III BHMS

PAPER 2: As per the syllabus of IV BHMS. Homoeopathic Therapeutics

PAPER 3: Homoeopathy Therapeutics

SURGERY

Homoeopathy as a Science need clear application on part of the physician to decide about the best course of actions required to restore the sick, to health.

Knowledge about surgical Disorders is required to be grasped will so that the Homoeopathic_:: Physician is able to:-

- 1 Diagnose common surgical cases.
 - 2 Institute homoeopathic medical treatment wherever possible
 - 3 Organize Pre and Post-operative Homoeopathic medicinal care as total/partial responsibility
- And
- 4 Organize a complete Homoeopathic care for restoring the susceptibility of the patient of the patient to normally.

The conceptual clarity and Database needed for above is possible only by an effective co-ordination of the care of the patients.

The study shall include training on:

- 1 Knowledge of causation, manifestation, maintenance and prognosis of Health Disorders related to Surgery with stress on miasmatic evolution.
- 2 Bedside clinical procedures.
- 3 Correlation of applied aspects, with factors which can modify the course of illness, including medicinal and non-medicinal measures

The above can assist a Homoeopathic Physician who will be a Rational Physician not one locked up in whirlpools of rare conditions but one who can apply all the basics for an ailing individual.

It will also facilitate him for Individualization of the patient, necessary for final Homoeopathic management.

The study will start in II (Second) BHMS and complete in III (Third) BHMS.

Examination will be conducted in III (Third) BHMS.

Following is a plan to achieve the above, It takes into account about the II (Second) and III (Third) year BHMS syllabus and respective stage of development.

Some points are made about co-ordinating with other departments (for a better training in Surgery ultimately).

That the SURGERY as a subject will include:-

- 1 Principles of Surgery
- 2 Fundamentals of Examination of a patient with surgical problems
- 3 Use of common Instruments for Examination of a patient, asepsis, antisepsis, Dressings, plaster, operative surgery etc.
- 4 Practical Instruments, Training in Minor surgical Methods.
- 5 Physiotherapy measures.

- 6 Include also applied study in Radiology, etc. Diagnostics.
- 7 Includes Orthopedics, Ophthalmology, Dental Diseases, Otorhinolaryngology and Neonatal Surgery .

III BHMS

- 1 What are surgical cases? Orientation towards case Taking and Examination of Surgical patients (Details to be done as part of Practical Training).
- 2 Applied anatomy and physiology - its importance demonstration with good examples
- 3 Basics of general surgical procedures
- 4 Inflammation. Infections (Specific and Non-specific) Suppuration. Bacteriology, Immunity.
- 5 Injuries of various kinds - wound healing and management Including Ulcers, Sinuses, Gangrene etc.
- 6 Hemorrhage. Shock, their management
- 7 Resuscitation and support in emergencies
- 8 Accidents and Warfare injuries management.
- 9 Burns Management
- 10 Fractures and Dislocation: general principles.
- 12 Diseases of the bones: general principles including growing skeleton
- 13 Diseases of the joints: general principles including Rheumatology.
- 14 Diseases of the muscles, tendons, Fascia, etc.: General principle.
- 15 Diseases of the Arteries: general principles.
- 16 Diseases of the veins: general principles
- 17 Diseases of the Lymphatic system: general principles.
- 18 Diseases of the nerves: general principles.
- 19 Oncology: Tumors, Cysts, etc. general principles of management.
- 20 Congenital disorders: orientation and correction procedures.
- 21 Lectures cum Demonstration on bandages, surgical appliances, etc.
- 22 Lecture Demonstrations on x-rays.
- 23 Surgical Diseases of the Infancy and Childhood.

The above has to be followed up with relevant systemic Surgery Topics so as to cover:

- 1 All common clinical conditions of various parts
- 2 Their evolution, examination methods and diagnosis.
- 3 Their investigations and prognosis.
- 4 Their management especially principles.
- 5 Relevant minor surgical procedures
- 6 Preventive aspects.

ORTHOPAEDICS:

Study as above about Injuries, inflammation, ulcer, sinus, tumors, cysts, etc, related to common condition of all bones and joints including spine with relevant management, correlating with Physiotherapy etc.

OPHTHALMOLOGY:

Knowledge of common diseases, accidents, Injuries, etc. of various parts of Eyes, Clinical Examination of Eyes (various parts) using various instruments including Ophthalmoscope. Common Eye operations and relevant care of the patients

OTORHINOLARYNGOLOGY (ENT)

Study as above of Ears, Nose, Throat, Tracheo- bronchial Tree, Oesophagus.

Management of Common SURGICAL PROCEDURES AND EMERGENCY PROCEDURES:

To be taught in Theory as practice,

- 1 Wounds, Abscesses, etc. Incision and Drainage.
- 2 Vene -sections.
- 3 Dressings and plasters,
- 4 Suturing of various types.
- 5 Preoperative and post-operative care
- 6 Management of post operative complications.
- 7 Management of shock.
- 8 Management of Acute Haemorrhage.
- 9 Management of acute injury cases.
- 10 Management of a Head Injury case

The above is utmost necessary for any physician. The above basically consists of Mechanical skilled procedure, supplementation, etc., measures which in no way interferes with scope and application of Law of Similar.

EXAMINATION

It will be conducted in III (THIRD) BHMS at end of 2 years of Course of study in Theory and Practical Training of Surgery. Eligibility for examination will include submission of 10 complete case histories, 5 (five) each from the study in II and III BHMS,

PAPER -1:

Inflammation; infection; haemorrhage; shock; burns; ulcers and gangrene; tumors; cysts; injuries and diseases of nerves, muscles, tendon burase; lymphatic system, vascular system, spleen; general diseases, Ophthalmology.

PAPER -2:

Head, Neck, Thyroid. Breast, Congenital anomalies, Abdominal Surgeries. Gastrointestinal system. Bones Joints, Spine, Thoracic Surgery, Otolaryngology, Dental Surgery.

PAPER -3:

Exclusively on Homoeopathic Therapeutics.

PRACTICAL AND CLINICAL EXAMINATIONS

The examination will include one case to be prepared and presented by the examinees. The assessing examiners shall stress on: 1) Comprehensive Case taking: 2) Bedside Training: 3) Adequate grasp over the process of Diagnosis: 4) Adequate grasp over principles of management.

GYNAECOLOGY AND OBSTETRICS INCLUDING INFANT CARE

The attitude towards study of this subject remains same as far Surgery. It will have to be emphasized that the Training in special clinical methods or investigation and treatment of local conditions will go a long way in managing Gynae. & Obst. cases.

There is a quite large part of the clinical territory of this subject which is amenable to Homoeopathic Treatment Pregnancy and Developmental Phase of the foetus are very useful phases to treat a lot of familial dyscrasias.

The problems studied herein constitute delicate phases of Female patients and have strong correlation with their general well being.

The study will start in II (Second) BHMS and complete in III (Third) BHMS. Examinations will be held in III (Third) BHMS.

Following is the plan to achieve the above.

II B.H.M.S. **OBSTETRICS**

1. A Review of the Applied Anatomy.
2. A Review of the Applied Physiology.
3. Development of the Intra Uterine Pregnancy.
4. Diagnosis of pregnancy.
5. Ante-natal care.
6. Abnormal Pregnancy: Introduction.
7. Normal labor.
8. Abnormal labor Introduction.
9. Post natal care Puerperal.
10. Abnormal Puerperal.
11. Care of the New born.

GYNAECOLOGY

1. Applied Anatomy and Physiology.
2. Gynaecological Examination.
3. Development abnormalities.
4. Endocrinal Axis: abnormalities.
5. Uterine Displacements.

III B.H.M.S. **OBSTETRICS**

1. Abnormal Pregnancies: Abortions, Molar pregnancy, Extra Uterine, Diseases of placenta and membrane. Toxemia of Pregnancy, Ante partum Hemorrhage. Disorders of Genital tract Retroversion, prolapse, Tumors, etc, Multiple Pregnancy, Protracted gestation.
2. Common disorders and systemic diseases associated with Pregnancy.
3. Labor Abnormal Position and Presentation, Twins, Prolapse of Cord and limbs, abnormalities in the action of the Uterus Abnormal condition of soft parts contracted Pelvis, obstructed labor, Complications of third stage of labor, injuries of birth canals.
4. Common Obstetrical operations.
5. Abnormal Puerperal: infections etc.

Gynaecology

Inflammation, ulceration and traumatic lesion of the female genital organs. Malignant/Non-malignant Growths, Common Gynaecological operations, and radiotherapy.

Infant Care:

Neonatal hygiene
Breast feeding.
Artificial feeding.
Management of premature child.
Asphyxia.
Birth injuries.
Common disorders of the new born.

EXAMINATION

It will be conducted in III (Third) BHMS at the end of 2 years of Course of studying Theoretical and Practical aspects of Gynaecology and Obstetrics.

Eligibility for examination will include submission of 20 complete cases of different types (10 each in Gynaecology and Obstetrics).

Paper - I : Obstetrics and Infant Care.

Paper - II : Gynaecology.

Paper - III : Exclusively for Homoeopathic Therapeutics.

PRACTICAL & CLINICAL EXAMINATION

The Examinee will take and present one case. The examiners shall stress on:

1. Comprehensive Case Taking.
2. Bedside training.
3. Adequate grasp over Diagnostics.
4. Adequate grasp over Management Principles.

COMMUNITY MEDICINE (including Health Education and Family Medicine)

Instructions in this course should be given in the Fourth year of medical studies by lectures, demonstrations and field studies. This subject is of utmost importance, and throughout the period of medical studies the attention of the student should be directed to the importance of preventive medicine and the measures for the promotion of positive health.

His function is not limited merely to prescribing homoeopathic medicines for curative purposes but he has a wider role to play, in the community. He has to be well conversant with the national health problems both of rural as well as urban areas, so that he can be assigned responsibilities to play an effective role not only in the field of curative but also of preventive and social medicine including family planning.

1. Introduction to preventive and social medicine concept, man and society: aim and scope of preventive and social medicine, social causes of disease and social problems of the sick, relation of economic factors and environment in health and disease.

2. Physiological hygiene:-

- (a) Food and nutrition-food in relation to health and disease. Balanced diets. Nutritional deficiencies and nutritional survey. Food processing, pasteurization of milk. Adulteration of food and food inspection, Food poisoning.
- (b) Air, light and sunshine.
- (c) Effect of climate-humidity temperature, pressure and other meteorological conditions-comfort zone, effect of overcrowding.
- (d) Personal hygiene - (Cleanliness, rest, sleep, work) Physical exercise and training care of health in tropics.

3. Environmental sanitation:

- (a) Definition and importance.
- (b) Atmospheric pollution-purification of air, air sterilization, air borne diseases.
- (c) Water supplies-sources and uses, impurities and purification. Public water supplies in urban and rural areas. Standards of drinking water, water borne diseases.
- (d) Conservancy- Methods in villages, towns and cities, septic tanks, dry earth latrines-water closets, Disposal of sewage, disposal of the deceased, disposal of refuse incineration.
- (e) Sanitation of fairs and festivals.
- (f) Disinfection - disinfectants, deodorants, antiseptics, germicides. Methods of disinfection and sterilization.
- (g) Insects-insecticides and disinfection-insects in relation to disease. Insect control.
- (h) Protozoan and helminthes diseases Life cycle of protozoan and helminthes, their prevention.

4. Medical Statistics.

Preventive Medicine

- (a) General principles of prevention and control of communicable diseases, Plague, Cholera, Small Pox Diphtheria, Leprosy, Tuberculosis, Malaria, Kala-zar, Filariasis, Common viral diseases e.g. Common Cold Measles, Chicken Pox, Poliomyelitis, Infective Hepatitis, Helminthes infections, Enteric fever, dysenteries and also animal diseases transmissible to man. Their description and methods of preventive spread by contact, by droplet infection by environmental vehicles, (water, soil food insects, animals, fountains, prophylaxis and vaccination.

- (b) General principles of prevention and control of non-communicable diseases e.g. obesity, hypertension etc.

Natural history of diseases.

5. Maternal and Child Health, school health services, health education, mental hygiene-elementary principles; school medicine its aim and methods.
6. Family Planning - Demography, channels of communication, National Family planning programme, knowledge, attitudes regarding contraceptive practices. Population and growth control.
7. Public health administration and international health relation.
8. Homoeopathic concept of prophylaxis, vaccination, Immunology and personal hygiene.

N.B.: Field demonstration-water purification plant, infectious diseases hospitals etc.

HOMOEOPATHIC REPERTORY

REPERTORY **IV BHMS**

Repertorization is not the end but means to arrive to the simillimum together with Materia Medica based on sound principles of Philosophy. Homoeopathic Materia Medica is an encyclopedia of Symptoms. No mind can memorize all the symptoms or all the drugs with their characteristic gradation. The repertory is an index and catalogue of the symptoms of the Materia Medica, nearly arranged in a practical form and also indicating the relative gradation of drugs, and it greatly facilitates quick selection of indicated remedy. It is impossible to practice Homoeopathy without the aid of repertories.

Each repertory has been compiled on distinct philosophical base, which determines its structure. In order to exploit full advantage of each repertory it is important to grasp thoroughly its conceptual base and construction. This will help student to learn scope, limitations and adaptability of the repertory.

Case taking:

Difficulties of taking a chronic case. Recording of cases and usefulness of record keeping.

Totality of symptoms, prescribing symptoms; uncommon peculiar and characteristic symptoms. Analysis of the case uncommon and common symptoms. Gradation and evaluation of symptoms. Importance of mental symptoms. Kinds and sources of general symptoms. Concomitant symptoms.

Teaching of repertorisation should not merely be reduced to rubric hunting exercises. Patient is not a bundle of rubrics.

Logic of Repertory, is delivered from Organon of Medicine as such Repertory should not be taught in isolation. Due emphasis should be made to:-

- a. Learning the language of repertory i.e. meaning of rubrics is correlation with Materia Medica and clinical experiences.
 - b. Correlation of Repertory with Therapeutics and Materia Medica.
1. History and development of repertories till date.
 2. Types of repertories.
 3. Explanation of terminologies used in various repertories.
 4. Boenninghausen's therapeutic pocket book and Boger Boenninghausen's repertory.
 5. Kent's repertory.
 6. Introduction to card repertory.
 7. Specific regional repertories ALLEN'S FEVER, BELL'S DIARHOEA with their comparison.
 8. Brief introduction to puritan group of repertory as Knerr, Gentry, Robert in respect of their Clinic use.
 9. Introduction to Computer Repertorization.

Practical

Students shall repertories

- (i) 10 acute cases on Kent.
 - (ii) 5 chronic cases on Kent.
 - (iii) 5 chronic cases on Boenninghausen.
 - (iv) 5 chronic cases on Boger-Boenninghausen.
 - (v) 5 cases to be cross checked on computer,
7. The existing in Regulation 7 shall be substituted as under namely:

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First B.H.M.S.

Examination

7. Admission to examination, scheme of examination etc.:

(i) The student shall be admitted to the First BHMS Examination provided he/she has required attendance as per regulation 13 (iii) to the satisfaction of the head of the Homoeopathic Medical College.

(ii) The First BHMS examination shall be held at the end of 18th month of admission.

(iii) The minimum number of hours for lecture, demonstration/practical and seminar classes in the subjects shall be as under:

Subject Demonstration	Theoretical Lectures	Practical / Tutorial / Seminar
1. Organon of Medicine, Principles of Homoeopathic Philosophy and Psychology	150 hrs.(including 40hrs. of psychology)	35 hrs.(including 10 hrs.of Psychology)
2. Anatomy, Histology and Embryology.	250 hrs.	325 hrs.
3. Physiology including Biochemistry	250 hrs.	325 hrs.
4. Homeopathic Pharmacy	100 hrs.	100 hrs.
5. Homeopathic Materia Medica	50 hrs.	25 hrs.

(iv) Examination in Organon of Medicine, Principles of Homoeopathic Philosophy and Psychology shall consist of one theory paper and one oral examination.

(v) Examination in Anatomy including Histology and Embryology shall consist of two theory papers. Practical includes oral, identification of specimen and histology slides.

(vi) Examination in Physiology including Biochemistry shall consist of two theory papers and one practical including oral.

(vii) The examination in Homoeopathic Pharmacy shall consist of one theory and one practical including Oral.

- (viii) The examination in Homoeopathic Materia Medica shall consist of one theory and one oral examination.
- (ix) Full marks for each subject and the minimum number of marks required for passing First BHMS should be as follows:

Subject	Written		Practical(including oral)		Total	
	Full Marks	Pass Marks	Full Marks	Pass Marks	Full Marks	Pass Marks
Homeopathic Pharmacy	100	50	100	50	200	100
Anatomy	200	100	200	100	400	200
Physiology including Biochemistry	200	100	200	100	400	200
Homeopathic Materia & Medica	100	50	50	25	150	75
Organon of Medicine, Principles of Homoeopathic Philosophy and Psychology	100	50	50	25	150	75

8. regulation 8 shall be substituted as under, namely:

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Second B.H.M.S.

EXAMINATION

- (i) No candidate shall be admitted to the Second BHMS Examination unless he has passed the First BHMS examination and he/she has required attendance as per regulation 7 (iii) to the satisfaction of the head of the Homoeopathic Medical College.
- (ii) The Second BHMS examination shall be held at the end of 30th month of admission to First BHMS.
- (iii) The minimum number of hours for lecture, demonstration/practical and seminar classes in the subjects shall be as under:

Subject	Theoretical Lecture(in hrs)	Practical/clinical/tutorial/Seminar(in hrs)
1. Pathology and Microbiology including Parasitology Bacteriology and Virology.	200	70
2. Forensic Medicine & Toxicology	50	20
3. Organon of Medicine and Principles of Homoeopathic	125	
4. Homeopathic Materia Medica	75	75
5. Surgery including ENT, Eye Dental and Homoeo therapeutics.	50} 25} 75	75
	One term of three months in surgical ward and OPD	
6. Obstetrics & Gynaecology Infant care and Homoeo therapeutics	75	75
	One term of three months in Gynaecology & Obstetrics ward and OPD	
7. Practice of Medicine and Homoeo. Therapeutics.	50} 25} 75	
	One term of three months in OPD & IPD of different Medical wards	

- (iv) Examinations in Pathology and Microbiology shall consist of one theory paper and one practical including oral. Identification of microscopic slides and specimens shall be a part of practical examination.
- (v) Examination in Forensic Medicine and Toxicology shall consist of one theory paper and one oral examination including identification and spotting of specimens.

- (vi) Examination in Organon of Medicine. Principles of Homoeopathic Philosophy and Psychology shall consist of one theory paper and one oral examination.
- (vii) Examination in Materia Medica shall consist of one theory paper and one practical including oral examination.
- (viii) In order to pass me Second BHMS examination, a candidate has to pass all the subjects of the examination.
- (ix) Full marks for each subject and the minimum marks required for pass are as follows:

Subject	Written		Practical(including oral)		Total	
	Full Marks	Pass Marks	Full Marks	Pass Marks	Full Marks	Pass Marks
Pathology & Microbiology	100	50	100	50	200	100
Forensic Medicine & Toxicology	100	50	100	50	200	100
Homoeopathic Materia Medica	100	50	100	50	200	100
Organon of Medicine	100	50	100	50	200	100

9. The existing entries in regulation 9 shall be substituted as under, namely:

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Third B.H.M.S.

EXAMINATION

- (i) No candidate shall be admitted to the Third BHMS examination unless he has passed the Second BHMS examination and he/she has required attendance as per regulation 7 (iii) to the satisfaction of the head of the Homoeopathic Medical College.
- (ii) The Third BHMS examination shall be held at the end of 42nd month of admission to First BHMS
- (iii) The minimum number of hours for lecture, demonstration/practical, clinical and seminar classes in the subjects shall be as under:

	Subjects	Theoretical Lecture	Practical/clinical/tutorial classes
1.	Practice of Medicine & Homoeo therapeutics	50} 25} 75	75 One term of 3 month each in OPD & IPD in different wards/Dept.
2.	Surgery including ENT, } Ophthalmology & dental } & Homoeo Therapeutics	100} 50} 150	75 One term of three months in surgical ward and OPD
3.	Obstetrics & Gynaecology Infant care & Homoeo therapeutics	100} 50} 150	75 One term of three months Gynae, ward and OPD
4.	Homoeopathic Materia Medica	100	75
5.	Organon of Medicine	100	75

- (iv) Examination in Surgery shall consist of three theory papers and one practical examination. One theory paper shall be exclusively on Homoeo therapeutics. The Practical examination shall consist of clinical examination and oral. In the clinical examination the students shall be examined on his skill on the surgical instruments, bandages and general measures related to surgery, scope of Homoeopathic therapeutics and examination and diagnosis of surgical disease through clinical examination, X-ray and other common diagnostic techniques. The case studies reports of the students carried out during the course shall also be considered for the oral examination.
- (v) Examination in Obstetrics & Gynaecology including infant care shall consist of three theory papers and one practical examination, One theory paper shall be exclusively on Homoeo therapeutics, The Practical examination shall consist of clinical examination and oral. In the clinical examination the students shall be examined on his skill on the specimens, models, instruments, and general appliances related to Obstetrics, scope of Homoeopathic therapeutics and examination and diagnosis of Gynaecological disease through clinical examination, X-ray

and other common diagnostic techniques. The case studies reports of the students carried out during the course shall also be considered for the oral examination.

- (vi) Examination in Homoeopathic Materia Medica shall consist of one theory paper and one bedside practical examination. The bedside examination shall be on two acute cases with special reference to their nosological diagnosis and therapeutic diagnosis from Homoeopathic point of view.
- (vii) Examination in Organon of medicine shall consist of one theory paper and on oral examination.
- (viii) In order to pass the Third BHMS examination, candidates have to pass in all the subject of the examination.
- (ix) Full marks for each subject and the minimum marks required for pass are as follows:

Subject	Written		Practical(including oral)		Total	
	Full Marks	Pass Marks	Full Marks	Pass Marks	Full Marks	Pass Marks
Surgery including ENT Ophthalmology & dental Homoeo. Therapeutics	300	150	200	100	500	250
Obstetrics & Gynaecology Infant care & Homoeo. therapeutics	300	150	200	100	500	250
Homoeopathic Materia Medica	100	50	100	50	200	100
Organon of Medicine	100	50	100	50	200	100

- 10. The existing entries in regulation 10 shall be substituted as under, namely:

VEER NARMAD SOUTH GUJARAT UNIVERSITY, SURAT.

Fourth B.H.M.S.

EXAMINATION

- (i) No candidate shall be admitted to the Fourth BHMS examination unless he has passed the third BHMS examination and he/she has required attendance as per regulation 7 (iii) to the satisfaction of the head of the Homoeopathic Medical College.
- (ii) The Fourth BHMS examination shall be held at the end of 54th month of admission of First BHMS.
- (iii) The minimum number of hours for lecture, demonstration/practical, seminar and clinical classes in the subjects shall be as under:

	Subjects	Theoretical Lecture	Practical/clinical/tutorial classes
1.	Practice Of Medicine & Homoeo Therapeutics	100} 50} 150	200 - One term of 4 months In OPD & IPD in different Medical wards/Deptt.
2.	Homoeopathic Materia Medica	100	75
3.	Organon of Medicine	100	75
4.	Repertory	125	150
5.	Community Medicine	100	100

- (iv) Examination in Practice of Medicine including Pediatrics, Psychiatry and Dermatology shall consist of three theory papers and one bedside practical examination. One theory paper shall be exclusively on Homoeo. therapeutics. The Practical examination shall consist of clinical examination and oral. In the clinical examination the students shall be examined on his skill on the nosological and therapeutic diagnosis, through clinical examination, X-ray and other common diagnostic techniques and detailed case takings on long and short cases. The case reports of the students carried out during the course shall also be considered for the oral examination.
- (v) Examination in Case taking and Repertory shall consist of one theory paper and one practical examination. The Practical examination shall consist of the Homoeopathic principles on case taking of one long case and one short case and the methods of arriving the reportorial totality, through case analysis and actual repertorisation. The skill of finding rubrics from Kent and Bonninghausan Repertories, the case reports of the students carried out during the course shall be considered for the oral examination.
- (vi) Examination in Homoeopathic Materia Medica shall consist of two theory papers

and one bedside practical examination, The bedside examination shall be one long case and one short case with special reference to their nosological diagnosis and therapeutic diagnosis from Homoeopathic point of view. The case reports of the students carried out during the course shall be considered for the oral examination.

- (vii) Examination in Organon of Medicine and Principles of Homoeopathic Philosophy shall consist of two theory papers and one practical examination. The practical examination shall be on the Homoeopathic orientation of cases in relation to miasmatic diagnosis, general management, posology, second prescription etc.
- (viii) The examination in Community Medicine including Health Education and Family Welfare shall consist of one theory paper and one oral examination, The oral examination shall be on spotting and identification of specimens and matters related to the community oriented problems.
- (ix) In order to pass the Fourth BHMS examination, candidates have to pass in all the subjects of the examination.
- (x) Full marks for each subject and the minimum marks required for pass are as follows:

Subject	Written		Practical(including oral)		Total	
	Full Marks	Pass Marks	Full Marks	Pass Marks	Full Marks	Pass Marks
Practice of Medicine	300	150	200	100	500	250
Homoeopathic Materia Medica	200	100	200	100	400	200
Organon of Medicine	200	100	100	50	300	150
Case taking & Repertory	100	50	100	50	200	100
Community Medicine	100	50	100	50	200	100

11. **RESULTS AND RE-ADMISSION TO EXAMINATION:**

- (i) Examining body may ensure that the results of the examination are published in time so that the student who successfully completes the BHMS examinations can complete the course in 5 1/2 yrs after admission.
- (ii) Candidates who have passed in one or more subjects need not appear in that subject or those subjects again in the subsequent examinations if the candidate passes the whole examination with in four chances including the original examination.
- (iii) Facility to keep term: Notwithstanding with the foregoing regulations, the students shall be allowed the facility to keep term on the following conditions:
 - (a) The candidate must pass the Second BHMS examination at least one term (6 months) before he is allowed to appear in the Third BHMS examination.
 - (b) The candidate must pass the Third BHMS examination at least one term (6 months) before he is allowed to appear in the Fourth BHMS examination

- (c) No candidate shall be given more than 4 chances to appear in First BHMS examination in the same subject.
- (iv) A candidate who appears at Second or Third BHMS examinations, but fails to pass in the subject or subjects, he may be admitted to the next examination in the subject or subjects. However candidates shall be allowed to keep term as provided in (iii) above.
- (v) Special classes, seminars, demonstrations, practical, tutorials etc. shall be arranged for the repeaters in the subject in which they have failed before they are allowed to appear at the next examination, in which attendance shall be compulsory.
- (vi) If a candidate fails to pass in all the subjects with in four chances in examinations, he shall be required to prosecute a further course of studying all the subjects and in all parts for one year to the satisfaction of the head of the college and appearing for examination in all the subjects. Provided that if a student appearing for the Fourth BHMS examination has only one subject to pass at the end of prescribed chances, he shall be allowed to appear at the next examination in that particular subject and shall complete the examination with this special chance.
- (vii) The examining body may under exceptional circumstances, partially or wholly cancel any examination conducted by it under intimation to the Central Council of Homoeopathy and arrange for conducting re-examination in those subjects within a period of thirty days from the date of such cancellation.
- (viii) Grace marks may be awarded to the students at the discretion of the University/ examining body on exceptional circumstances

12. Examiners

- (i) No person other than the holder of qualification prescribed for the teaching staff in Homoeopathy (Minimum Standards of Education) Regulation as amended from time to time shall be appointed as an internal or external examiner or paper-setter for the BHMS Degree Course. Provided that:-
- (a) No such person shall be appointed as an examiner unless he has at least three years continuous regular teaching experience in the subject concerned, gained in a degree level Homoeopathic Medical College.
- (b) Internal examiners shall be appointed from amongst the teaching staff of the Homoeopathic Medical College.
- (c) A paper setter may be appointed as an internal or external examiner.
- (ii) The examining body may appoint a single moderator or moderators not exceeding three in number for the purpose of moderating question papers.
- (iii) Oral and practical examinations shall as a rule be conducted by the respective internal and external examiners with mutual co-operation. They shall each have 50% of the maximum marks out of which they shall allot marks to the candidates appearing at the examination according to their performance and the mark-sheet so prepared shall be signed by both the

examiners. Either of the examiners shall have the right to prepare, sign and send mark-sheet separately to the examining body together with his comments. The examining body shall take due note of such comments but it shall declare results on the basis of the mark-sheets.

- (iv) Every Homoeopathic College shall provide all facilities to the internal and external examiners for the conduct of examinations, and the internal examiners shall make all preparations for holding the examinations.
- (v) The external examiner shall have the right to communicate to the examination body his views and observations about any shortcomings or deficiencies in the facilities provided by the Homoeopathic College.
- (vi) He shall also submit a copy of his communication to the Central Council for such action as the Central Council may consider fit.

13. GENERAL GUIDELINES FOR ADMISSION TO EXAMINATION AND SCHEME OF EXAMINATION.

- (i) The examining Body shall ensure that the minimum number of hours for lecture/demonstration/practical/seminar etc. in the subjects in each BHMS examination as specified in respective regulations are followed before allowing any Homoeopathic Medical College to send the students for University examination.
- (ii) The examining body shall ensure that the students of the Homoeopathic Medical Colleges, who do not fulfill the Homoeopathy (Minimum Standards of Education) Regulation, are not sent for the University Examination.
- (iii) Attendance: 75% attendance in a subject for appearing in the examination is compulsory. The examining body may relax this on exceptional circumstances on individual merit.
- (iv) Each theory paper shall be of three hours duration.
- (v) The Practical/oral examination shall be completed immediately after the theory Examination.
- (vi) That the examining body shall hold examinations on such date and time as the examining body may determine. The theory and practical examination shall be held in the premises of the Homoeopathic Medical College concerned.
- (vii) There shall be two examinations in a year. One Regular examination and another Supplementary, The supplementary examination may be conducted within 6 months of the Regular examination
- (viii) No student shall be permitted to join para clinical/clinical group of subjects until he has passed in all the pre clinical subjects of First BHMS for which he will be permitted not more than Four chances including the original examination.

14. "MISCELLANEOUS"

(i) **Authorities empowered to conduct examinations:**

The Universities shall conduct the examination for the Degree Course in various States or the agencies empowered by an Act of Parliament.

(ii) **Interpretation:**

Where any doubt arises to the interpretation of these regulations it shall be referred to the Central Council for clarification.

(iii) **Power to relax:**

Where any University, or Medical institution in India which grants medical qualification, is satisfied that the operation of any of these regulations causes undue hardship in any particular case, that University or Medical institution as the case may be, may by order, for reasons recorded in writing, dispense or relax the requirement of that regulation in such an extent and subject to such exceptions and conditions as it may consider necessary for dealing with the case in a just and equitable manner.

(iv) **Saving Clause:**

Any Diploma/Degree Qualification, at present included in II or III Schedule to the Homoeopathy Central Council Act where nomenclature is not in consonance with these regulations shall cease to be recognized medical qualification when granted after the commencement of these regulations. However, this clause will not apply to the students who are already admitted to these courses before the enforcement of these regulations.

(v) **Transfer of students from One College to another:**

(a) A student studying in a Homoeopathic Medical College may be allowed to migrate/transfer to another Homoeopathic Medical College under same or another University.

(b) The University concerned can allow the migration/transfer within three months after passing the First BHMS examination, as a rule.

(c) Migration/Transfer of students during the course of their training for the clinical subjects may be avoided.

(d) The number of students migrating/transferring from one college to another college during one year will be kept to the minimum so that the training of the regular students of that college is not adversely affected. The number of students migrating/transferring to/from any one college should not exceed the limit of 5% of its intake subject to a maximum of 5 student in any one Homeopathy college in one year.

(e) Cases not covered under the above regulations may be referred to the Council for consideration on individual merits.

(f) Intimation about the admission of migrated/transferred students into any College shall be sent to the Council forthwith.

ANNEXURE 'A' (REGULATION 3 (II))

INTERNSHIP TRAINING

1. Each candidate shall be required to undergo compulsory rotating internship of one year, after passing the final BHMS Examinations, to the satisfaction of the Principal of the Homoeopathic College. Thereafter only, the candidate shall be eligible for the award of Degree of Bachelor of Homoeopathic Medicine and Surgery (B.H.M.S.) by the University.
 - (i) All parts of the internship training shall be undertaken at the hospital attached to the College, and, in cases where such hospital cannot accommodate all of its students for internship then such candidates/students shall be informed in writing by the college and it shall be the responsibility of the College to ensure that each of such students is put on internship training in a Homoeopathic Hospital or dispensary run by Government or local bodies.
 - (ii) To enable the State Board/Council of Homoeopathy to grant provisional registration of minimum of one year to each candidate to undertake the internship, the University concerned shall issue a provisional passed certificate on passing the final BHMS examination to each successful candidate. Provided that in the event of shortage or unsatisfactory work, the period of compulsory internship and the provisional registration shall be accordingly extended by the State Board/Council.
 - (iii) Full registration shall only be given by the State Boards if the BHMS degree awarded by the University concerned is a recognized medical qualification as per Section 13 (1) of the Act, and Board shall award registration to such candidates who produce certificate of completion or compulsory rotating internship of not less than one year duration from the Principal of College where one has been a bonafide student which shall also declare that the candidate is eligible for it.
 - (iv) The internee students shall not prescribe the treatment including medicines, and, each of them shall work under the direct supervision of Head of Department concerned and/or a Resident Medical Officer. No intern student shall issue any medico legal document under his/her signatures.
 - (v) Each candidate shall complete the internship training at the maximum within a period of 24 months after passing the final year examination.
2. The internship training shall be regulated by the Principal in consultation with concerned Heads of Departments and R.M.O. as under-
 - (i) Each internee student shall be asked to maintain a record of work which is to be constantly monitored by the Head of concerned Department and/or Resident Medical Officer under whom the internee is posted. The scrutiny of record shall be done in an objective way to update the Knowledge, skill and aptitude of internee.
 - (ii) The stress during the internship training shall be on case taking, evaluation of symptoms, nosological and miasmatic diagnostic analysis, repertorisation and management of sick people based on principles of Homoeopathy. Weekly seminars shall be conducted wherein interns in rotation be given a chance to present their cases for discussion, and, concerned teachers/R.M.O. shall assess performance of each of interns.
 - (iii) Rotation of intern-students shall be as under:
 - (a) Practice of Medicine - 8 Months wherein internee will be rotated in each Psychology, Respiratory, Gastro-intestinal. Endocrinology, Skin and V.D., Loco-motor, Cardiology, Pediatrics sections.

- (b) Surgery-1 Month.
 - (c) Obstetrics & Gynaecology - 2 months (1 month each (including Reproductive & child health care))
 - (d) Community medicine (including PHC/CHC) - 1 month.
- (iv) Each interneer shall be exposed to clinico pathology work to acquire skill in taking samples and doing routine blood - examination, blood smear for parasites, sputum examination, urine and stool examination. Students shall be trained to correlate laboratory findings with diagnosis and management of sick people.
 - (v) Each interneer shall be given opportunities to learn the diagnostic techniques like x-rays, Ultra sonography, E.C.G., Spirometer and other forthcoming techniques and co-relate their findings with diagnosis and management of cases.
 - (vi) Each interneer student shall be given adequate knowledge about issuing of medico-legal certificates including medical and fitness certificates, death certificates, birth certificates, court producers and all of such legislation's be discussed which were taught in curriculum of Forensic Medicine.
 - (vii) Each interneer shall maintain records of 40 acute and 25 chronic cases complete in all manner including follow up in Practice of Medicine, record of 5 antenatal check-up and 3 delivery cases attended by him/her in Department of Obstetrics and 3 cases of Gynaecology; records of 5 surgical cases assisted by him (and demonstrational knowledge of dressings) in Surgery department, and records of knowledge gained in Primary Health Centers, Community health Centers, various health programmes.
 - (viii) It shall be compulsory for each Intern-Student to prove at least one drug during the Period of internship.
 - (ix) Each interneer shall be given a liberty to choose an elective assignment on any subject, and complete out-put shall be furnished in writing by the interneer in respect of elective assignment to the principal of the College within internship duration.
 - (x) Each intern shall be posted on duty in such a manner that each of them attend at least 15 days in O.P.D. and 15 days in I.P.D. at least in each month (except for duty in Community Medicine) and attend the other parts of duty including self-preparation in Library.
 - (xi) Each intern-student shall be made to learn importance of maintaining statistics and records. Intern-student shall also be familiarized with research-methodology.
3. (i) Each interneer shall have not less than 80% of attendance during the internship training.
 - (ii) Each interneer shall be on duty of at least 6 hrs. per day during the compulsory internship training.