

Scheme of Examination

&

Syllabi

*(AS PER CENTRAL COUNCIL HOMOEOPATHY Amended, NOTIFICATION
OF SEPT.2003)*

**FOR
FIRST & SECOND BHMS EXAMINATIONS**

Academic Session 2005 - 2006



GURU GOBIND SINGH
INDRAPRASTHA
UNIVERSITY

GURU GOBIND SINGH INDRAPRASTHA UNIVERSITY
Kashmere Gate, Delhi - 110 006 (INDIA).

www.ipu.ac.in

Scheme for First BHMS

Code No.	Subject	Full Marks	Pass Marks
BHMS-101	Homeopathic Pharmacy	100	50
BHMS-102	Anatomy (Paper I)	100	50
BHMS-103	Anatomy (Paper II)	100	50
BHMS-104	Physiology including Biochemistry (Paper I)	100	50
BHMS-105	Physiology including Biochemistry (Paper II)	100	50
BHMS-106	Homeopathic Materia Medica	100	50
BHMS-107	Organon of Medicine, Principles of Homeopathic Philosophy and Physiology	100	50
Practical/Oral			
BHMS-151	Homeopathic Pharmacy	100	50
BHMS-152	Anatomy (I & II)	200	100
BHMS-153	Physiology including Biochemistry (Practical including oral)	200	100
BHMS-154	Homeopathic Materia Medica	50	25
BHMS-155	Organon of Medicine, Principles of Homeopathic Philosophy and Physiology	50	25
TOTAL MARKS		1300	650

Scheme for Second BHMS

Code No.	Subject	Full Marks	Pass Marks
BHMS-201	Pathology And Microbiology including Parasitology Bacteriology and Virology	100	50
BHMS-202	Forensic Medicine & Toxicology	100	50
BHMS-203	Homeopathic Materia Medica	100	50
BHMS-204	Organon of Medicine	100	50
Practical/Oral			
BHMS-251	Pathology And Microbiology including Parasitology Bacteriology and Virology	100	50
BHMS-252	Forensic Medicine & Toxicology	100	50
BHMS-253	Homeopathic Materia Medica	100	50
BHMS-254	Organon of Medicine	100	50
TOTAL MARKS		800	400

SCHEME FOR FIRST BHMS

Paper Code: BHMS - 101
Paper: Homoeopathic Pharmacy

INSTRUCTIONS TO PAPER SETTERS:	MAXIMUM MARKS: 100
1. Attempt SIX Questions in All 2. Attempt THREE Questions from each part . Question No.1 is compulsory from each part and is of 10 Marks.	

Subject	Theoretical Lectures	Practical / Tutorial / Seminar
Homeopathic Pharmacy	100 hrs.	100 hrs.

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

SAMPLE PAPER

Time; 3 Hrs	Max. Marks :100
1 Attempt SIX Questions in All 2 Attempt THREE Questions from each part . Question No.1 is compulsory from each part and is of 10 Marks.	
<u>PART -A</u> 50 Marks	
Q 1.	10 Marks(Compulsory)
Q2.....	20 Marks
Q3.....	20 Marks
Q4.....	20 Marks
<u>PART-B</u> 50 Marks	
Q5.....	10 Marks (Compulsory)
Q6.....	20 Marks
Q7.....	20 Marks
Q8.....	20 Marks

PART –A

50 Marks

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 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.

50 Hrs.

PART – B

50 Marks

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.

Potentization: Its logic, scientificity and evolution and scales.

Vehicles

Scales for preparation of drugs.

Pharmacological Action of Polycrest 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. **50 Hrs.**

TEXT BOOKS;

1. A text books of Homoeopathic Pharmacy by MANDAL AND MANDAL
2. Art and Science of Homoeopathic Pharmacy by Dr. sumit Goel
3. A text book of Hom. Pharmacy by DR. D.D. Banerjee

REFERENCE BOOKS:

1. The Glimpses of the history of Medicine by DR. D.D. Banerjee
2. Homoeopathic Drug Picture by DR. M.L. Tyler
3. Principles & Practice of Hom. By M.L. Dhawle

Paper Code: BHMS - 102
Anatomy (Paper-I)

INSTRUCTIONS TO PAPER SETTERS:

MAXIMUM MARKS: 100

1. Attempt **SIX** Questions in All
2. Attempt **THREE** Questions from each part .**Question No.1** is compulsory from each part and is of **10** Marks.

PART-A

Max.Marks 50

Head and Neck

Scalp - Innervations, vascular supply middle meningeal artery.

Face-main muscles groups, muscles of facial expression muscles of mastication, innervations of skin and repair muscles, vascular supply, principles of repair scalp and face wrinkles.

The eyelids, eyeball, lachrymal apparatus, the muscles that move the eyeball.

The nasal cavity and nasopharynx, septum, conchae, Para nasal sinus, Eustachian tube lymphoid masses.

Oral cavity and pharynx.

Larynx and laryngeal part of Pharynx structure (No details) functions, nerves supply, laryngoscopes appearances.

Cervical vertebrae, joints of head and neck.

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, esophagus. The position of the Sub-mandibular and sublingual salivary glands.

Teeth and dentition.

The external middle and internal ear.

Applied anatomy

Surface marking: Parotid gland, middle meningeal artery, thyroid gland, common internal and external carotid arteries.

Embryology.

Modern conception of cell components and their functions, why a cell divides, cell division, types with their significance.

Genetic Individuality: (I) Elementary genetics definition, health and disease, result of interaction between organism and its environments, utility of knowledge from Homoeopathic point of view

(ii) Mendel's Laws and their significances

(iii) Applied genetics.

65 Hrs

PART- B Max.Marks 50
Upper Extremity

- (i) Skeleton, position and functions of joints,
- (ii) Muscle groups, Brachial plexus,
- (iii) Arterial supply, venous drainage, Neuro vascular bundles, lymphatic and lymph nodes, relation of nerves to bones.
- (iv) Joints with special emphasis on Shoulder, Elbow and Wrist 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.

Neuro anatomy / Brain

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

60 hrs.

Paper Code: 103

Anatomy (Paper– II)

INSTRUCTIONS TO PAPER SETTERS:	MAXIMUM MARKS: 100
1. Attempt SIX Questions in All	
2. Attempt THREE Questions from each part . Question No.1 is compulsory from each part and is of 10 Marks.	

(c)

PART-A
Abdomen And Pelvis

Marks 50

- (i) The abdominal wall-skin and muscles, innervations of fascia, peritoneum, blood vessels, lymphatic, autonomic, ganglia and plexuses.
- (ii) Stomach, small intestine, caecum, appendix, large intestine.
- (iii) Duodenum, pancreas, kidneys, uterus, supra renals.
- (iv) Liver and gall bladder
- (v) Pelvis, skeleton and joints, muscles of the pelvis, organs internal and external genitalia in male and in the female, lumbosacral plexus, vessels, lymphatic, autonomic ganglia, and plexuses.
- (vi) Blood vessels and nerve plexuses of abdomen and pelvis, the portal venous system.
- (vii) Applied anatomy of referred pain, portal systemic anastomosis, catheterization of the urinary bladder in the male and female.
- (viii) Surface marking of organs and blood vessels.

Lower Extremities

- (i) Skeleton, position and functions of joints,
- (ii) Muscle groups, lumber 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.

60 hrs.

Thorax

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

Histological study

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

65 hrs.**Text books:**

1. *Human Anatomy*, B. D. Chaurasia,
2. *Di Fore's Atlas of Histology*, Victor P. Eroschenko, Lippincott Williams & Wilkins

Reference books:

1. *Gray's Anatomy*, Churchill Livingstone
2. *Clinical Anatomy for Medical Students*, Richard S. Snell, Lippincott Williams & Wilkins

Paper Code: 104
Physiology including Biochemistry (Paper- I)

INSTRUCTIONS TO PAPER SETTERS:

MAXIMUM MARKS: 100

- | |
|---|
| <ol style="list-style-type: none">1 Attempt <u>SIX</u> Questions in All2 Attempt <u>THREE</u> Questions from each part .Question No.1 is compulsory from each part. |
|---|

PART –A

Marks: 50

Introduction

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, ultra-filtration, dialysis, surface tension, absorption, hydrotropy, domain equilibrium, colloid, acid-base concentration.

Blood composition

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. Lymphatic and RE system.
7. Coagulation & homeostasis.

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 vessel.
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.

60 hrs.

PART –B

Marks :50

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.

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 aqueous humor.
6. Physiology of optics, Formation of image, accommodation errors of refraction, acuity of vision.
7. Physiology of retina photoreceptor functions, dark and light adaptation, photochemistry of vision, colour vision.
8. Visual pathway and effects of various levels.

Environmental Physiology

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

65 hrs.

Paper Code: 105
Physiology including Biochemistry (Paper-II)

INSTRUCTIONS TO PAPER SETTERS:

MAXIMUM MARKS: 100

1. Attempt **SIX** Questions in All
2. Attempt **THREE** Questions from each part .**Question No.1** is compulsory from each part and is of **10** Marks.

Marks: 50

Part-A
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.

Skeleto - 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.

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 & hemi section 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.

Digestive system

1. General introduction, Organization 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.

Nutrition

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

60 hrs.

PART- B

Marks 50

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, fetal circulation and respiration.

BIOCHEMISTRY

1. Biochemical principles and elementary constituents of protoplasm.
2. Chemistry of proteins.
3. Chemistry of carbohydrates.
4. Chemistry of lipids.
5. Enzymes and vitamins.
6. Metabolism of proteins, fats carbohydrates, minerals. Biophysical process and their principles in relation to human body.

65 hrs.

Text Books:

- a. Text book of Physiology (Vol I & II): Dr A.K.Jain
- b. Review of Medical Physiology: Ganong
- c. Human Physiology: Guyton
- d. Harper's Biochemistry: Murray Granner
- e. Samson Wright's Applied Physiology: Keele & Joels.

Reference Books:

- f. Text book of Physiology (Vol I & II): Dr A.K.Jain
- g. Review of Medical Physiology: Ganong
- h. Human Physiology: Guyton
- i. Harper's Biochemistry: Murray Granner
- j. Samson Wright's Applied Physiology: Keele & Joels

HOMOEOPATHIC MATERIA MEDICA.
Paper Code: 106
Homoeopathic Materia Medica

INSTRUCTIONS TO PAPER SETTERS:

MAXIMUM MARKS: 100

1. Attempt **SIX** Questions in All
2. Attempt **THREE** Questions from each part .**Question No.1** is compulsory from each part and is of **10** Marks.

PART –A

HOMOEOPATHIC MATERIA MEDICA. Max Marks ;50

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 concomitant remedies.
 6. Therapeutic applications (applied materia medica)
- C. A study of 12 tissue remedies according to Schussler's biochemic system of medicine.
- D
 1. Aconite nap
 2. Aethusa cyan
 3. Allium cepa
 4. Aloe socotrina
 5. Antimonium crud
 6. Antimonium tart
 7. Apis mellifica
 8. Argentum nit
 9. Arnica Montana
 10. Bryonia alb

30 Hrs.

PART -B

Marks 50

- | | |
|----------------------|-------------------|
| 11. Chamomilla | 12. Cina |
| 13. Colchicum autumn | 14. Colocynths |
| 15. Dulcamera | 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 | |

20 Hrs.

Text Books:-

- 1 Homoeopathic Mat.Medica: By William Boericke
- 2 Key Notes & Characteristics of the Materia Medica: By H.C.Allen
- 3 Homoeopathic Drug Picture by DR. M.L. Tyler
- 4 Lectures on Homoeopathic Materia Medica : By Dr J.T.Kent.

Reference Books:-

- 1 Homoeopathic Mat.Medica: By William Boericke
- 2 Key Notes & Characteristics of the Materia Medica: By H.C.Allen
- 3 Homoeopathic Drug Picture by DR. M.L. Tyler
- 4 Lectures on Homoeopathic Materia Medica : By Dr J.T.Kent.

Paper Code: 107
ORGANON OF MEDICINE AND PRINCIPLES OF HOMOEOPATHIC
PHILOSOPHY AND PSYCHOLOGY

INSTRUCTIONS TO PAPER SETTERS:

MAXIMUM MARKS: 100

1. Attempt **SIX** Questions in All
2. Attempt **THREE** Questions from each part .**Question No.1** is compulsory from each part and is of **10** Marks

PART –A

Marks :50

I. Fundamentals of Homeopathic 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 early history of spread of Homeopathy & position of Homeopathy in various countries..
4. Hahnemann's Organon of Medicine from aphorism 1 to 42.
5. Fundamentals Principles of Homeopathy.
6. Health: Hahnemann's and modern concept.
7. Introductory lectures on diseases, their classification, drug diseases, case taking and drug proving.

75 Hrs.

PART –B

Marks :50

II. Logic.

The term 'Logic' means 'though' '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 Behaviorist and psychoanalytic approaches.
2. Scientific study of behavior, intelligence, cause - effect relation - behavior (Pavlov, Watson, Skinner) and dynamics of behaviour (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, psychometric manifestations and dreams.
5. Developmental Psychology - normal developments since birth to maturity (both physical and psychological) and deviations- its effects on later behavior
*The attempts should be made to make a student receptive to various terms in teachings of Materia Medica and Homeopathic Philosophy.
- 6 Hahnemann's Organon of Medicine from **aphorism 43 to 70**

75 Hrs.

Text books:

- 1 **Organon of Medicine 5th the 6th Edition by Hahneman**
- 2 Introduction to Psychology 7th Edition by Clifford T. Morgan Richard A. King, published by Tata Mcgran Hill E.D.
- 3 The Genius of Homoeopathic Lecture and Essay on Homoeopathy Philosophy by Stuart Close
- 4 Life of Christian Samuel Hahnemann's founder of Homoeopathy by R.W. Hobhouse

References books:

1. The Lesser writing of Samuel Hahnemann
2. His life and work Samuel Hahnemann (2 Vols.) by Richard Haehl lectures on Homoeopathic Philosophy by J.T. Kent

Paper Code: BHMS - 151
Homoeopathic Pharmacy (Practical/ Oral)

Practicals:

Max Marks 100

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 trituration 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 polycrest.
- (8) Preparations of trituration of 3 crude drugs upto 3X.
- (9) Preparation of mother tinctures and solutions other than 10 percent Drug strength.
- (10) Potentization of 3 mother tinctures upto 6 decimal scale and 3 centesimal scales.
- (11) Trituration of 3 drugs upto 6x and their conversion into liquid potencies.
- (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 : I

PHARMACOLOGICAL 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 Indica
10. Cannabis sat
11. Cinchonna off
12. Coffea crud
13. Cratagus
14. Crotalus horridous
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. Passiflora incamata
- 27.; Stannum met
28. Stramonium
29. Symphytum
30. Tabacum

LIST OF DRUGS FOR IDENTIFICATION

I. VEGETABLE KINGDOM

1. Aegle folia
2. Anacardium orientale
3. Andrographis penniculata
4. Calendula Officinalis
5. Cassia sophera
6. Cinchonna off
7. Cocculus indicus
8. Coffea Cruda
9. Colocynth cittrallus
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. Rauwalfia 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. Arsenic alb
6. Calcarea Carb
7. Carbo Veg (charcoal)
8. Graphite
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. Tarantula Cubensis

100Hrs.

TEXT BOOKS:

- A text books of Homoeopathic Pharmacy by MANDAL AND MANDAL
- Art and Science of Homoeopathic Pharmacy by Dr. sumit Goel
- A text book of Hom. Pharmacy by DR. D.D. Banerjee

REFERENCE BOOKS:

- The Glimpses of the history of Medicine by DR. D.D. Banerjee
- Homoeopathic Drug Picture by DR. M.L. Tyler
- Principles & Practice of Hom. By M.L. Dhawle

**Paper Code: 152
Anatomy (Practical / Oral)**

**Syllabus for Practicals / Orals is, as mentioned in the Theory
paper of this Subject.**

Text books:

1. *Cunningham's Manual of Practical Anatomy*, G. J. Romanes, Oxford Medical Publications
2. *Di Fore's Atlas of Histology*, Victor P. Eroschenko, Lippincott Williams & Wilkins

Reference books:

1. *Gray's Anatomy*, Churchill Livingstone
2. *Grant's Atlas of Anatomy*, Agur & Lee, Lippincott Williams & Wilkins

Paper Code: 153
Physiology Including Biochemistry (Practicals including Oral)

Practical

LIST OF PRACTICALS IN PHYSIOLOGY Max Marks 200

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. Effects of Fee and after Loading on Frog's Gastronomies 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 Vagosympathetic Trunk and Crescent on Frod'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. Photo kinetic 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.

Text Books:

- Text book of Physiology (Vol I & II): Dr A.K.Jain
- Review of Medical Physiology: Ganong
- Human Physiology: Guyton
- Harper's Biochemistry: Murray Granner
- Samson Wright's Applied Physiology: Keele & Joels.

Reference Books:

- Text book of Physiology (Vol I & II): Dr A.K.Jain
- Review of Medical Physiology: Ganong
- Human Physiology: Guyton
- Harper's Biochemistry: Murray Granner
- Samson Wright's Applied Physiology: Keele & Joels.

Paper Code: 154
Homoeopathic Materia Medica Practical including Oral
Max Marks 50

Syllabus for Practicals / Orals is, as mentioned in the Theory paper of this Subject.

Text Books:-

- Homoeopathic Mat.Medica: By William Boericke
- Key Notes & Characteristics of the Materia Medica: By H.C.Allen
- Homoeopathic Drug Picture by DR. M.L. Tyler

Reference Books:-

- Homoeopathic Mat.Medica: By William Boericke
- Key Notes & Characteristics of the Materia Medica: By H.C.Allen
- Homoeopathic Drug Picture by DR. M.L. Tyler

PAPER CODE: BHMS – 155
ORGANON OF MEDICINE AND PRINCIPLES OF HOMOEOPATHIC PHILOSOPHY AND
PSYCHOLOGY

Max Marks 50

Syllabus for Practicals / Orals is, as mentioned in the Theory paper of this Subject.

Text books:

- 1 Organon of Medicine 5th the 6th Edition by Hahneman**
- 2 Introduction to Psychology 7th Edition by Clifford T. Morgan** Richard A. King, published by Tata Mcgran Hill E.D.
- 3 The Genius of Homoeopathic Lecture and Essay on Homoeopathy**
Philosophy by Stuart Close
- 4Life of Christian Samuel Hahnemann's founder of Homoeopathy by R.W. Hobhouse**

References books:

- 1 The Lesser writing of Samuel Hahneman
- 2 His life and work Samuel Hahneman (2 Vols.) by Richard Haehl lectures on Homoeopathic Philosophy by J.T. Kent

SECOND BHMS

Paper Code: 201

Pathology and Microbiology including Parasitology Bacteriology and Virology.

INSTRUCTIONS TO PAPER SETTERS:

MAXIMUM MARKS: 100

1. Attempt **SIX** Questions in All
 2. Attempt **THREE** Questions from each part. **Question No.1** is compulsory from each part and is of **10** Marks.
-

PART -A

MAX MARKS :50

Study of Pathology must be in relation with Concept of Miasm as evolved by Dr. Hahneman 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 Genera! 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.

Healing.
Hyperplasia.
Anaplasia.
Metaplasia
Ischemia.
Hemorrhage.
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 the mode of presentation, progress and outcome of the disease. For e.g. in

Alimentary System

Tongue	Ulcer, Tumor
--------	--------------

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

CARDIO VASCULAR DISEASES

Ischemic 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 Endometrial.
Breast Inflammation and Tumors.

RESPERATORY DISEASES

Pulmonary function tests
Bronchial Asthma
Bronchitis.
Bronochiactesis.
Emphysema.
Empyema.
Cor pulmonale.
Pneumonia.
Bronchogenic Carcinoma.
Interstitial lung Disease.

GASTRO INTESTINAL DISEASES.

Tongue Stomatitis Ulcers Tumors.
Esophagus, Reflux Oesophagitis.
Tumor of Esophagus.
Stomach Gastritis.
Liver Cirrhosis, Hepatitis, Ca LIVER.
Liver abscess.
Liver function test.
Gall Stones.
Pancreas Acute AND CHRONIC
PANACREATITIS, CA PANCREAS
Intestine Ulcers, Duodenal colic's, ca colon and
return.
Tumors.
Mal Absorption Syndrome
INFECTION.
APPENDIX ACUTE APPENDICITIS

SKIN DISEASES

Infection And Tumors

BONES DISEASES

Sarcoma , Osteoma, Pagets Diseases
Osteomyelitis , Tubercular , Osteomyelitis
Rheumatoid Arthritis Osteo Arthritis

GENRAL NERVOUS SYSTEM

Meningitis Pyogenic/ Tubercular

CEREBRO SPINAL FLUID

Picture of various Diseases.

ENDOCRINAL SYSTEM

Thyroid Disease, Diabetes Mellitus.

100 Hrs.

PART-B

MAX.MARKS :50

1. Bacteriology:

Widely used, laboratory, sterilization, disinfection, the disease principle of anti, Rabies,
Bacteria, infection, defense, production, immunity, hypersensitiveness, skin tests,
systematic study of bacterial habits, importance, morphological, cultural, bio-
chemical, serological and toxic behaviour of the common pathogenic and
Protozoa, classification, names, of important rhizopods, Ento, Histology, etc.

2. Parasitology:

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, Rickettsia, Proteus, spirochetes-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 pathogenecity, diagnosis, differences from Ent. Coli sporozoa species of plasmodia life history and pathogenesis differentiation of species.

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

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

2. VIROLOGY:

Diagnoses of Infectious Diseases host Parasite Relationship. Disinfectants. Mode of action. Practical aspects of Immunology i.e. Application in diagnosis, Passive Immunization, Immunopatnies in brief including AIDS Bacteria Genetics (briefly).

100 Hrs.

Text Books

- Robbin's Text book of Pathology
- Text book of Pathology : By Harsh Mohan
- Text Book of Microbiology : By Anant Narayan
- Text book of Parasitology :By Chatterjee
- Practical Pathology : By Harsh Mohan

Reference Books

- Robbin's Text book of Pathology
- Text book of Pathology : By Harsh Mohan
- Text Book of Microbiology : By Anant Narayan
- Text book of Parasitology :By Chatterjee
- Practical Pathology : By Harsh Mohan
- Chronic Miasms: By Alle

Paper Code: 202
FORENSIC MEDICINE & TOXICOLOGY

INSTRUCTIONS TO PAPER SETTERS:

MAXIMUM MARKS: 100

1. Attempt **SIX** Questions in All
 2. Attempt **THREE** Questions from each part. **Question No.1** is compulsory from each part and is of **10** Marks.
-
-

PART-A

1 Medial ethics.

Law relating to medical registration and medical relation between practitioner and the

2 Forensic Medicine:

Examination and identification of persons living and dead: Parts, bones, stains, etc.

25 Hrs.

PART-B

3 Toxicology

Mineral Acid, corrosive sublimate arsenic and its compound alcohol, opium and its

4. Medico legal post-mortem:

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 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. Legal procedure

Definition of medical Jurisprudence, courts, and their jurisdiction

6 Demonstration:

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

25 Hrs.

Text Books:-

- Hand Book of Forensic Medicine And Toxicology by Dr. S.C. Basu
- The Essentials of Forensic Medicine and Toxicology by Dr. K.S. Narayan Reddy
- Parikh's Textbook of Medical Jurisprudence, Forensic Medicine and Toxicology by Dr. C.K. Parikh

Reference Books:-

- Modi's Medical Jurisprudence and Toxicology by Dr. Jaising P. Modi
- Richard Shepherd Simpson's Forensic Medicine by Dr. C. K. Simpson

Paper Code: 203
HOMOEOPATHIC Materia Medica

INSTRUCTIONS TO PAPER SETTERS:

MAXIMUM MARKS: 100

1. Attempt **SIX** Questions in All
 2. Attempt **THREE** Questions from each part .**Question No.1** is compulsory from each part and is of **10** Marks.
-

PART –A

Marks :50

PART –B

Marks: 50

50	Cantharis	51	Chelidonium Majus
52	Conium Mac	53	Digitalis per
54	Drosera	55	Ferrum met
56	Gelsemium	57	Hellebores
58	Hepur sulph	59	Ignatia
60	Kali Bron	61	Kreosotum
62	Natrum Carbo	63	Nux moschata
64	Opium	65	Petroleum
66	Phosphorus	67	Phytolocca
68	Platina met	69	Sepia
70	Spongia tosta	71	Veratrum alb
72	Kali mur	73	Kali phos
74	Magnesia Ph	75	Natrum sulph

60 Hrs.

Text Books:-

1. Homoeopathic Mat.Medica: By William Boericke
2. Key Notes & Characteristics of the Materia Medica: By H.C.Allen
3. Homoeopathic Drug Picture by DR. M.L. Tyler
4. Lecture's on Homoeopathic Materia Medica : By Dr J.T.Kent.

Reference Books:-

1. Homoeopathic Mat.Medica: By William Boericke
2. Key Notes & Characteristics of the Materia Medica: By H.C.Allen
3. Homoeopathic Drug Picture by DR. M.L. Tyler
4. Lecture's on Homoeopathic Materia Medica: By Dr J.T.Kent.

Paper Code: 204
ORGANON OF MEDICINE

INSTRUCTIONS TO PAPER SETTERS:

MAXIMUM MARKS: 100

-
1. Attempt **SIX** Questions in All
 2. Attempt **THREE** Questions from each part. **Question No.1** is compulsory from each part and is of **10** Marks.
-

PART –A

Marks :50

Hahnemann's Organon of Medicine Aphorism: 1 to 70

- (i) Evolutionary study of the patient comprising of well defined characteristics.

65 Hrs.

PART- B

Marks :50

- (1) To individualize the case so as to prepare an effective totality which allows us to arrive
- (2) To infer about state susceptibility by appreciating the quality of characteristics state of
- (3) Order of evaluation of the characteristics. of the case would become stepping-stone
- CLASSIFICATION OF SYMPTOMS.** Their scopes and limitations in arriving as a
- (i) Thorough grasp over the underlying dynamics: (Psychological, Physiological,
- (ii) This would demand thorough comprehension over the evolution of DISEASE. taking
- (iii) Knowledge of socio-cultural background is quite imperative for correct analysis and

Text books:

- Organon of Medicine 5th the 6th Edition by Hahneman
- Introduction to Psychology 7th Edition by Clifford T. Morgan Richard A. King, published by Tata Mcgran Hill E.D.
- The Genius of Homoeopathic Lecture and Essay on Homoeopathy Philosophy by Stuart Close
- Life of Christian Samuel Hahnemann's founder of Homoeopathy by R.W. Hobhouse

References books:

- The Lesser writing of Samuel Hahneman
- His life and work Samuel Hahneman (2 Vols.) by Richard Haehl lectures on Homoeopathic Philosophy by J.T. Kent

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 stain of pus and sputum.

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

Histopathology

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

Sectioning staining by common dyes and strain.

Frozen section. Its importance.

Electron Microscopy.

Phase contrast microscopy.

Text Books

- Robbin's Text book of Pathology
- Text book of Pathology : By Harsh Mohan
- Text Book of Microbiology : By Anant Narayan
- Text book of Parasitology :By Chatterjee
- Practical Pathology : By Harsh Mohan

Reference Books

- Robbin's Text book of Pathology
- Text book of Pathology : By Harsh Mohan
- Text Book of Microbiology : By Anant Narayan
- Text book of Parasitology :By Chatterjee
- Practical Pathology : By Harsh Mohan
- Chronic Miasms: By Allen

Paper Code: 252
FORENSIC MEDICINE & TOXICOLOGY (PRACTICALS INCLUDING ORAL)

Syllabus for Practicals / Orals is, as mentioned in the Theory paper of this Subject.

Text Books:-

- Hand Book of Forensic Medicine And Toxicology by Dr. S.C. Basu
- The Essentials of Forensic Medicine and Toxicology by Dr. K.S. Narayan Reddy
- Parikh's Textbook of Medical Jurisprudence, Forensic Medicine and Toxicology by Dr. C.K. Parikh

Reference Books:-

- Modi's Medical Jurisprudence and Toxicology by Dr. Jaising P. Modi
- Richard Shepherd Simpson's Forensic Medicine by Dr. C. K. Simpson

Paper Code: BHMS - 253
Paper: Materia Medica (Oral/Practical)

Syllabus for Practicals / Orals is, as mentioned in the Theory paper of this Subject.

Text Books:-

- 1 Homoeopathic Mat.Medica: By William Boericke
- 2 Key Notes & Characteristics of the Materia Medica: By H.C.Allen
3. Leader's in Homoeopathic Materia Medica: By Nash
4. Lecture's on Homoeopathic Materia Medica: By Dr J.T.Kent.
- 5 Materia Medica: By Farrington

Reference Books:-

- 1 Homoeopathic Mat.Medica: By William Boericke
- 2 Key Notes & Characteristics of the Materia Medica: By H.C.Allen
3. Leader's in Homoeopathic Materia Medica: By Nash
4. Lecture's on Homoeopathic Materia Medica: By Dr J.T.Kent.
5. Materia Medica: By Farrington

Paper Code: BHMS - 254
Paper: ORGANON OF MEDICINE (Practical including orals)

Syllabus for Practicals / Orals is, as mentioned in the Theory paper of this Subject.

Text books:

- Organon of Medicine 5th the 6th Edition by Hahneman
- Introduction to Psychology 7th Edition by Clifford T. Morgan Richard A. King, published by Tata Mcgran Hill E.D.
- The Genius of Homoeopathic Lecture and Essay on Homoeopathy Philosophy by Stuart Close
- Life of Christian Samuel Hahnemann's founder of Homoeopathy by R.W. Hobhouse

References books:

- The Lesser writing of Samuel Hahneman
- His life and work Samuel Hahnemann (2 Vols.) by Richard Haehl lectures on Homoeopathic Philosophy by J.T. Kent

