

बिहार स्वास्थ्य विज्ञान विश्वविद्यालय

BIHAR UNIVERSITY OF HEALTH SCIENCES

मीठापुर, पटना-800001

NEW CURRICULUM MBBS (Session 2024)

1st Professional M.B.B.S. Syllabus

ANATOMY

Subject – Anatomy Paper – I

Central nervous system,

Head and Neck, Thorax, Superior extremities

Basic Histology,

Genetics

Subject – Anatomy Paper – II

Diaphragm Abdomen and Pelvis including Perineum,

Inferior Extremities,

Regional Histology,

Embryology.



M.B.B.S. Syllabus Physiology

Physiology Paper I (General Physiology & Systems Physiology)

1. General Physiology
2. Nerve & Muscle Physiology
3. Cardiovascular System
4. Respiratory System
5. Excretory System & Kidney
6. Gastrointestinal System
7. Hematology

Physiology Paper 2 (Special Senses, Endocrinology, Reproduction & Integrative Physiology)

1. Nervous System
2. Special Senses
3. Endocrinology
4. Reproductive System
5. Integrative Physiology

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BIOCHEMISTRY

Paper – I

- Cell Structure & membrane, (Fluid Mosaic Model of Plasma Membrane), Extracellular Fluid & Matrices, Protein sorting & targeting & Associated diseases.
- Bio-Physics – Principles of Solution, Colloids, Surface tension, Osmotic pressure, Adsorption, p^H .
- Basic concepts of Radio isotopes, Water & electrolytes.
- Acid- Base Balance: Water & electrolytes.

Body fluids –

Blood, Plasma Bile, Milk, Lymph, CSF, Urine, Faeces, sweat.

Enzymology, Immunology.

- **Chemistry of :-**
 - a.) Carbohydrates
 - b.) Protein & Amino acids
 - c.) Fats & Lipids, Nucleic Acid.
 - d.) Vitamines
 - e.) Minerals & Antioxidant, free Radicals
- Biochemistry of Harmon's & its mechanism of action, Biosignalling
- Haemoglobin & Myoglobin Chemistry.
- **Nutrition -**
 - a.) Balanced diet
 - b.) Diet in Pathological condition, Health & Nutrition.
- Xenobiotics
- Digestion & Absorption of Carbohydrates, Fats & Proteins.

Biochemistry

Paper – II

1. Metabolism

- a.) Carbohydrate
- b.) Protein
- c.) Lipid
- d.) Metabolism of Heme and Hemoglobinopathies.
- e.) Nucleic acid metabolism
- Electron Transport chain (Oxidation & Reduction)
- Oxidative Phosphorylation.

Biochemistry of Cancer:-

- Cancer, carcinogenesis and Tumor Markers

Autoimmune diseases

Genetics –

- Concepts of DNA, RNA, Organization of Genome, DNA Replication & Repair, Mutation, Transcription, Translation, Regulation of Gene expression.
- Recombinant DNA Technology, PCR
- Protein Synthesis & Post translational modification of protein

Inborn error of metabolism.

Organ function tests –

- LFT, KFT, Gastric function test, Thyroid function test, Adrenal Function Test
- Electrophoresis
- Colorimeter
- Chromatography