

Ref No: CIR / EXAM / 2023 / 0030

Date: 01/12/2023

To,  
Phase I MBBS Students,  
CDSIMER, DSU

**Circular- First Internal Assessment for Phase I MBBS (Academic year 2023-24)**

The timetable for the **First Internal Assessment (Theory & Practical)** for Phase I MBBS Students (2023 - 24 batch) is as given below.

THEORY		
DATE & DAY	TIME	SUBJECT
02-01-2024, Tuesday	10 AM to 1 PM	ANATOMY
03-01-2024, Wednesday	10 AM to 1 PM	PHYSIOLOGY
04-01-2024, Thursday	10 AM to 1 PM	BIOCHEMISTRY

PRACTICAL				
DATE	TIME	SUBJECT		
08-01-2024	9 AM to 4 PM	A BATCH	B BATCH	C BATCH
Monday		ANATOMY	PHYSIOLOGY	BIOCHEMISTRY
09-01-2024	9 AM to 4 PM	B BATCH	C BATCH	A BATCH
Tuesday		ANATOMY	PHYSIOLOGY	BIOCHEMISTRY
10-01-2024	9 AM to 4 PM	C BATCH	A BATCH	B BATCH
Wednesday		ANATOMY	PHYSIOLOGY	BIOCHEMISTRY

**Batches for Practical Exams are as follows:**

USN	Batch	No. of Students
HSC23MB0001 - HSC23MB0050	A	50
HSC23MB0051 - HSC23MB0100	B	50
HSC23MB0101 - HSC23MB0150	C	50

  
**Principal & Dean**  
Dr. A.C. ASHOK, MS, DNB, DA  
Principal & Dean  
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**RESEARCH**

**THEORY INTERNAL ASSESSMENT QUESTION PAPER PATTERN**

Type of Question	Number of Questions	Marks for each question	Total Marks
Long Essay	2	10	20
<b>Short Essay</b>	9	5	45
Short Answer	5	3	15
<b>Multiple Choice Questions (MCQs)</b>	20	1	20
<b>Total</b>			<b>100</b>

**TOPICS FOR 1<sup>st</sup> INTERNAL ASSESSMENT**

**ANATOMY:**

- Gross Anatomy – General Anatomy, Upper limb, Thorax (till 29/12/2023 - bronchopulmonary segments)
- Embryology – General Embryology
- Histology – General histology (till nervous tissue)
- Osteology – Upper limb bones, Thoracic vertebra, Ribs, Sternum

**PHYSIOLOGY:**

**THEORY PORTIONS**

**1. General Physiology:** Body fluid compartments, Cell Physiology and membrane transport, Homeostasis-its constancy and regulatory mechanisms. Mechanism and significance of programmed cell death, Membrane potentials, Intercellular junctions and Communications, Patch clamp technique

**2. Blood:** Plasma proteins- Classification, functions and changes in health and disease,

Formation and functions of RBCs, WBCs and Platelets and changes in their count in health and disease, Hemoglobin – Types, Synthesis, Iron Metabolism, Jaundice, Anemia Immunity – Definition, types, antigens, antibodies, Development of Immune response, Immune tolerance, Autoimmunity, Hypersensitivity, Immunodeficiency diseases Hemostasis, Mechanism of Blood Coagulation, Anticoagulants ,Fibrinolytic Mechanism, Hemophilia, Blood groups and Blood transfusion

**3.Nerve:** Neuron- Structure & types, Neuroglia- types & Functions, Genesis of RMP, Action potential- phases and ionic basis, Strength duration curve, Refractory period, Propagation of action potential, Classification of Nerve fibers, Degeneration and Regeneration of Nerve Fibers ,Neuromuscular Junction- Structure ,Neuromuscular transmission , Disorders of Neuromuscular junction, Excitation-contraction coupling, characteristics of muscle contraction, Muscle disorders. Smooth Muscle – Types, Structure, Properties, steps in Smooth Muscle Contraction, characteristics of smooth muscle contraction

**4. Cardiovascular System:** Anatomical and functional overview of heart,

Properties of Cardiac muscle, Pacemaker tissue & Conducting system of heart,

Recording, features and uses of normal ECG. Cardiac axis & vector. Cardiac Cycle , Cardiac Output

### **PRACTICAL PORTIONS**

1. Estimation of Haemoglobin by Sahli's Method
2. Determination of Red Blood Cell Count
3. Determination of Blood Indices
4. Determination of Total Leucocyte Count
5. Determination of Differential Leucocyte Count
6. Determination of Blood Group
7. Determination of Bleeding Time and Clotting Time

### **PRACTICAL PATTERN**

Experiment	Number of Questions	Total Marks
Major Experiment	1	20
Minor Experiment	1	10
Problem Chart	1	10
OSPE( Identification of different white blood cells )	1	20
Case based Viva	As applicable	20
<b>Total</b>	Practical + Viva	60+20

**Note:** Completed record and log books should be submitted on the day of Practical Exam

## **BIOCHEMISTRY**

**Theory:** All topics covered till 29/12/2023 from the date of commencement of classes

**Practical:** Normal Urine, Abnormal Urine