

Ref No: CIR / EXAM /2023 /0011

Date: 07/03/2023

To,
Phase I MBBS Students,
CDSIMER, DSU

Circular- First Internal Assessment for Phase I MBBS Academic year 2022-23

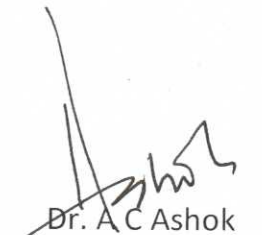
The timetable for the **First Internal Assessment (Theory & Practical)** for Phase I MBBS Students (2022 - 23 batch) is as given below.

THEORY		
DATE & DAY	TIME	SUBJECT
03-04-2023, Monday	10 AM to 1 PM	ANATOMY
04-04-2023, Tuesday	10 AM to 1 PM	PHYSIOLOGY
05-04-2023, Wednesday	10 AM to 1 PM	BIOCHEMISTRY

PRACTICAL				
DATE	TIME	SUBJECT		
		A BATCH	B BATCH	C BATCH
10-04-2023 Monday	9 AM to 4 PM	ANATOMY	PHYSIOLOGY	BIOCHEMISTRY
11-04-2023 Tuesday		B BATCH ANATOMY	C BATCH PHYSIOLOGY	A BATCH BIOCHEMISTRY
12-04-2023 Wednesday	9 AM to 4 PM	C BATCH ANATOMY	A BATCH PHYSIOLOGY	B BATCH BIOCHEMISTRY

Batches for Practical Exams are as follows:

USN	Batch	No. of Students
HSC22MB0001 - HSC22MB0050	A	50
HSC22MB0051 - HSC22MB0100	B	50
HSC22MB0101 - HSC22MB0150	C	50


Dr. A.C. Ashok
Principal & Dean

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CDSIMER, DSU, DNB, DA
Principal & Dean

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Devarakaggalahalli, Kanakapura Road,
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TOPICS FOR FIRST INTERNAL ASSESSMENT

Department of Anatomy

- **General Anatomy.**
- **Gross Anatomy** – Upper limb, Thorax
- **Embryology** – General embryology, Development of right atrium and inter atrial septum
- **Histology** – General Histology – Cartilage, muscle, blood vessel, nervous tissue, bone, lymphatic tissue, skin, salivary glands.
- **Osteology** – Clavicle, scapula, humerus, radius, ulna, hand, sternum, ribs, thoracic vertebra.

Department of Physiology

Theory Portions:

1. General Physiology: Body fluid compartments, Cell membrane and Organelles, transport across the cell membrane, Homeostasis-its constancy and regulatory mechanisms. Mechanism and significance of programmed cell death, Intercellular junctions and Communications.

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 Muscle Physiology: 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 cardiography. Cardiac Cycle, Cardiac Output, Dynamics of Circulation ,Cardiovascular regulatory mechanism, Blood Pressure- Components, determinants, factors affecting Blood pressure ,regulation & applied aspects, Coronary circulation, Cerebral circulation.

THEORY QUESTION PAPER PATTERN

Type of Question	Number of Questions	Marks for each question	Total
Long Essay	2	10	20
Short Essay	9	5	45
Short Answer	5	3	15
Multiple Choice Questions	20	1	20
TOTAL			100

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	10
Minor Experiment	1	5
Problem Chart	1	5
OSPE(Identification of different ,white blood cells)	1	10
Case based Viva	As applicable	10
Total	Practical + Viva	40

Note: Completed record and log books should be submitted on the day pf Practical Exam.

Department of Biochemistry

Theory Portions:

- ENZYMES - Classification, Mechanism of action
- CELL and Transport across cell membrane
- Chemistry of carbohydrates
- Chemistry of amino acids and proteins
- Chemistry of lipids
- Chemistry of Nucleotides and nucleic acid
- Fat soluble vitamins
- Water soluble vitamins-B12 and Folic acid
- Renal Function tests
- Plasma proteins
- Digestion and absorption of carbohydrates and lipids.

PRACTICAL PORTION

Normal Urine and Abnormal Urine