

Ref No: CIR / EXAM /2023 /0017

Date: 13/06/2023

To,  
Phase I MBBS Students,  
CDSIMER, DSU

**Circular- Second Internal Assessment of Phase I MBBS for the Academic year 2022-23**

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

THEORY		
DATE & DAY	TIME	SUBJECT
13-07-2023, Thursday	10 AM to 1 PM	ANATOMY
14-07-2023, Friday	10 AM to 1 PM	PHYSIOLOGY
15-07-2023, Saturday	10 AM to 1 PM	BIOCHEMISTRY

PRACTICAL				
DATE	TIME	SUBJECT		
17-07-2023	9 AM to 4 PM	A BATCH	B BATCH	C BATCH
Monday		ANATOMY	PHYSIOLOGY	BIOCHEMISTRY
18-07-2023	9 AM to 4 PM	B BATCH	C BATCH	A BATCH
Tuesday		ANATOMY	PHYSIOLOGY	BIOCHEMISTRY
19-07-2023	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
HSC22MB0001 - HSC22MB0050	A	50
HSC22MB0051 - HSC22MB0100	B	49
HSC22MB0101 - HSC22MB0151	C	51

*(Signature)*  
Dr. A.C. Ashok

Principal & Dean

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

Dr. Chandramma Dayananda Sagar  
Institute of Medical Education & Research, DSU  
Devarakaggalahalli, Kanakapura Road,  
Ramanagara Dist., Karnataka-562112

# Portions for Second Internal Assessment

## Anatomy

1. **Gross Anatomy** – Abdomen , pelvis, perineum, Head & Neck ( till july 4<sup>th</sup> – Cavernous sinus)
2. **Embryology** – Development of ventricles and inter ventricular septum, Aortic arches, development of respiratory system, development of female reproductive system, development of GIT, development of urinary system.
3. **Systemic Histology** – Respiratory system, Digestive system, Hepatobiliary system and pancreas, Male reproductive system.
4. **Osteology** – Hip bone, pelvis, sacrum, thoracic and lumbar vertebra, skull - norma verticalis.

## Physiology

### ❖ THEORY

1. **Cardiovascular physiology** : Electrophysiology of heart- Recording, features and uses of normal ECG , Cardiac Cycle , Cardiac output , Blood pressure- its components, determinants, factors affecting arterial BP, Regulation (short term, intermediate, long term) and pathophysiology of Shock, heart failure.
2. **Renal physiology**: Functional anatomy, renal circulation, Mechanism of urine formation- Glomerular filtration, tubular reabsorption and secretion, counter current mechanism, acidification of urine. Renal regulation of acid base balance, fluid-electrolyte balance and its clinical implication. Micturition. Normal and abnormal cystometry. Artificial kidney, renal transplantation. Renal function tests.
3. **Gastrointestinal physiology**: General principles of gastrointestinal functions, secretions, movements and regulation. GI Secretions: Volume, composition, Mechanism of formation, Regulation, functions of Saliva, Gastric juice, Exocrine Pancreatic secretion; Succus entericus and Bile. GI Movements: Electrophysiology of GI smooth muscle and basic patterns of GI motility ; Electrophysiology of gastric emptying and regulation Digestion and Absorption of Carbohydrates, Proteins, Lipids and Vitamins ;Role of Dietary fibers. GI hormones, Gut brain axis Components Enterohepatic circulation, Gastric, Pancreatic (exocrine) and Liver function tests. GI disorders.
4. **Endocrine**: Anterior and posterior pituitary hormones , Secretion, Mechanism of action , Actions and regulation of secretion, conditions caused by hyper and hypo secretion of Growth hormone, thyroid hormone.

❖ THEORY QUESTION PAPER PATTERN

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

❖ PRACTICAL PORTIONS

**A. HEMATOLOGY**

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

**B. CLINICAL**

1. Examination of Radial pulse.
2. Measurement of Arterial Blood Pressure
3. Effect of Posture & Exercise on Pulse and Blood Pressure
4. Examination of Cardiovascular System
5. Examination of Respiratory System

**C. HUMAN**

1. Mosso's Ergography
2. Harvard Step Test
3. Study of Electrocardiogram

❖ PRACTICAL EXAM PATTERN

Experiment		Number of Questions	Total Marks
HEMATOLOGY	Major Experiment	1	20
	Minor Experiment	1	10
CLINICAL EXPERIMENTS		1	20
HUMAN EXPERIMENTS		1	10
<b>TOTAL (PRACTICAL + VIVA)</b>			<b>60+20</b>

**Note:** Completed record, log books and Skill Certification books duly signed by respective faculty members should be submitted on the day of Practical Exam

## **Biochemistry**

### **❖ THEORY:**

5. Carbohydrate Metabolism including Diabetes Mellitus
6. TCA Cycle
7. Protein Metabolism
8. Lipid Metabolism covered till 10/7/23
9. Water soluble vitamins
10. Nutrition
11. Enzymes- Clinical enzymology, Enzyme kinetics and factors affecting enzyme activity, enzyme inhibition
12. Minerals-Iron
13. Applications of radioisotopes in medicine
14. Detoxification

### **❖ PRACTICALS:**

15. OSPE
16. QUALITATIVE - NORMAL AND ABNORMAL URINE
17. QUANTITATIVE -ESTIMATION OF GLUCOSE,UREA,TOTAL PROTEIN & ALBUMIN, CREATININE :SERUM&URINE & CALCULATION OF CREATININE CLEARANCE