

Human Physiology and Biochemistry

Semester Wise Distribution of Theory, Practical, Clinical Physiology & OPDs

Sr. No	Theory, Practical, Clinical Physiology & OPDs
SEMESTER - 1	
Module 1. Organization of the human body	Theory : • General physiology • Bio Physics Science • Skin & The integumentary System Clinical Physiology : • Case Taking & Approach to Patient • General concept of examination.
Module 2 Principals of Support System & Movements with transportation	Theory : • Body Fluid & Immune Mechanism • Nerve Muscles Physiology

	Practical : • Study of the Compound Microscope • Collection of Blood Samples • Estimation of Haemoglobin Concentration • Determination of Haematocrit • Haemocytometry • Total RBC Count • Determination of RBC Indices • Total Leucocytes Count (TLC) • Preparation And Examination Of Blood Smear • Differential Leucocyte Count (DLC) • Absolute Eosinophil Count • Determination of Erythrocyte Sedimentation Rate • Determination of Blood Groups
--	---




H.O.D.
 Department of Human Physiology
 And Biochemistry
 Sai Homoeopathy Medical College
 Sasure (Vairag)

- Determination of Bleeding Time and Coagulation Time
- Clinical Physiology :**
Examination of muscles, joints,

4th Month – 5 days PA

6th Month – 10 days TT – including Viva Voce

SEMESTER – 2

Module 3.

Vital Maintenance of the human body

Theory :

- Cardiovascular System
- Respiratory & Environmental Physiology **Clinical Physiology :-**
- Cardio-Vascular System – Blood Pressure Recording, Radial Pulse, ECG, Clinical Examination
- Respiratory System- Clinical Examination, Spirometry, Stethography
- OPD (Applied Physiology)

Module 4.

Control system of the human body with continuity

Theory :

- Central Nervous System
- Endocrinology **Clinical Physiology :**
- Nervous System- Clinical Examination
- Special Senses- Clinical Examination
- Reproductive System – Diagnosis of pregnancy
- OPD

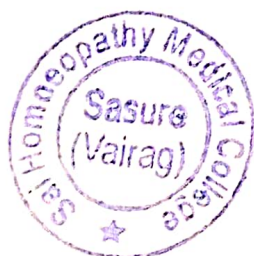
9th Month – 5 days PA

12th Month – 10 days TT – including Viva Voce



SEMESTER – 3

Module 5. Energy maintenance of human body	Theory : • Reproductive System • Special Senses • Digestion System & Nutrition • Renal Physiology • Bio-Chemistry Practical :- • Demonstration of Uses Of Instruments Or Equipment • Qualitative Analysis of Carbohydrates, Proteins And Lipids • Normal Characteristics of Urine • Abnormal Constituents of Urine • Quantitative Estimation of Glucose, Total Proteins, Uric Acid in Blood • Liver Function Tests • Kidney Function Tests • Lipid Profile • Interpretation and Discussion of Results of Biochemical Tests Clinical Physiology :-
	• Gastrointestinal System- Clinical Examination • OPD
14th Month – 5 days PA 18th Month – 12 days TT – including Viva Voce – University exam	



PHYSIOLOGY THEME TABLE

PAPER – 1

Theme*	Topics	Term	Marks	MCQ's	SAQ's	LAQ's
A	General Physiology	I	07	Yes	Yes	No
B	Biophysics Science	I	07	Yes	Yes	No
C	Body fluids & Immune Mechanism	I	26	Yes	Yes	Yes
D	Cardiovascular system	II	16	Yes	Yes	Yes
E	Respiratory system	II	16	Yes	Yes	Yes
F	Excretory system	III	16	Yes	Yes	Yes
G	Skin & The Integumentary System	I	06	Yes	Yes	No
H	Nerve Muscle physiology system	I	06	Yes	Yes	No

QUESTION PAPER BLUE PRINT

UNIVERSITY EXAM PAPER-I – 100 MARKS

MCQs – 10 Marks. SAQs – 40 Marks. FAQs – 50 Marks

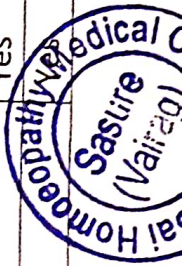
Question Serial Number	Type of Question	Question Paper Format (Refer Theme table for themes)
Q1	Multiple choice Questions (MCQ) All questions compulsory 1 mark each	1. Theme A 2. Theme A 3. Theme B 4. Theme B 5. Theme C 6. Theme D 7. Theme E 8. Theme F 9. Theme G 10. Theme H
Q2	Short answer Questions (SAQ)	Theme A



	All questions compulsory 5 Marks Each	2. Theme B 3. Theme C 4. Theme D 5. Theme E 6. Theme F 7. Theme G 8. Theme H
Q3	Long answer Questions (LAQ) All questions compulsory 10 marks each	1. Theme C 2. Theme C 3. Theme D 4. Theme E 5. Theme F

PAPER – 2

Theme*	Topics	Term	Marks	MCQ's	SAQ's	LAQ's
A	Endocrine system	II	21	Yes	Yes	Yes
B	Central Nervous System	II	21	Yes	Yes	Yes
C	Digestive system and Nutrition	III	16	Yes	Yes	Yes
D	Reproductive system	III	17	Yes	Yes	Yes
E	Sense organs	III	17	Yes	Yes	Yes
F	Biochemistry	III	08	Yes	Yes	No



Question Serial Number	Type of Question	Question Paper Format (Refer Theme table for themes)
Q1	Multiple choice Questions (MCQ) All questions compulsory 1 mark each	1) Theme A 2) Theme B 3) Theme C 4) Theme D 5) Theme D 6) Theme E 7) Theme E 8) Theme F 9) Theme F 10) Theme F
Q2	Short answer Questions (SAQ) All questions compulsory 5 Marks Each	1) Theme A 2) Theme A 3) Theme B 4) Theme B 5) Theme C 6) Theme D 7) Theme E 8) Theme F
Q3	Long answer Questions (LAQ) All questions compulsory 10 marks each	1) Theme A 2) Theme B 3) Theme C 4) Theme D 5) Theme E



Practical Exam: 100 Marks	
Haematology	20 marks
Bio-chemistry	20 marks
Clinical Physiology	20 marks
Spotting - 10 Spots	30 marks
Journal	10 marks
Viva: 80 Marks	
Viva Voce	80 marks
Internal Assessment: 20	
IA	20

The Pass Marks in Each Component of the Examination shall be 50%.

9B - Scheme of Assessment (formative and Summative)

Sr. No	Professional Course	1 st term (1-6 Months)		2 nd Term (7-12 Months)		3 rd Term (13-18 Months)	
		1 st PA	1 st TT	2 nd PA	2 nd TT	3 rd PA	UE
1	First Professional BHMS	20 Marks Practical/Viva	100 Marks Theory	20 Marks Practical/Viva	100 Marks Theory	20 Marks Practical/Viva	



For Internal assessment, Only Practical/Viva marks will be considered. Theory marks will not be counted)

Method of Calculation of Internal Assessment Marks for Final University Examination:

PA1 Practical/Viva (20 Marks)	PA2 Practical/Viva (20 Marks)	PA3 Practical/Viva (20 Marks)	Periodical Assessment Average PA1+PA2+PA3/3	TT1 Practical/ Viva (100 Marks)	TT2 Practical/ Viva (100 Marks)	Terminal Test Average TT1+ TT2/ 200*20	Final Internal Assessment Marks
A	B	C	D	E	F	G	D+G/2

PA- Periodical Assessment TT- Terminal Test UE- University Examination

