

LESSON PLAN

Name of Faculty		VIKAS	
Discipline:		DIPLOMA IN PHARMACY	
Semester/Year		1 ST Year	
Subject/Code:		HAP (ER20-24T/ 24P)	
Lesson Plan duration:		28 Weeks (2023-24)	
Work load (lecture/Practical) per week (in Hours)			
THEORY			PRACTICAL (ER20-24P)
WEEK	Lecture Day	Topic (including assignment/Test)	Practical Day
1 st	1 st	scope of anatomy and physiology	1 st
	2 nd	Definition of various terminology	
	3 rd	Revision	
2 nd	1 st	Components of cell	2 nd
	2 nd	Structure of cell	
	3 rd	Functions of cell	
3 rd	1 st	Types of tissues	3 rd
	2 nd	Sub types of tissues	
	3 rd	Characteristics of tissues	
4 th	1 st	Compositions and functions of blood	4 th
	2 nd	Process of hemopoiesis	
	3 rd	Characteristic and fuctions of RBCs, WBCs, and platelets	
5 th	1 st	Revision	5 th
	2 nd	Mech. of blood clotting	
	3 rd	Importance of Blood groups	
6 th	1 st	Lymph and lymphatic system	6 th
	2 nd	Composition, function and formation of lymph	
	3 rd	Structure and function of spleen	
7 th	1 st	Structure and function of lymph node	7 th
	2 nd	Revision	
			Study of compound microscope.
			General technique for the collection of blood.
			Microscopic examination of Epithelial tissue, Cardiac muscle, Smooth muscle, Skeletal muscle, Connective tissue, and Nervous tissue of ready/ pre-prepared slides.
			Revision
			Revision
			Study of human skeleton-Axial skelton and appendicular skeleton.
			Detemination of A. Blood group

	3 rd	Anatomy and physiology of heart		B. ESR C. Haemoglobin content of blood D. Bleeding time and Clotting time
8 th	1 st 2 nd 3 rd	Blood vessels and circulation Cardiac cycle and heart sound Basics of ECG	8 th	Determination of WBC count of blood.
9 th	1 st 2 nd 3 rd	Blood pressure and its regulation Revision Anatomy of respiratory organs and their functions	9 th	Determination of RBC count of blood.
10 th	1 st 2 nd 3 rd	Regulation, and mech of respiration Respiratory volumes and capacities revision	10 th	Determination of Differential count of blood.
11 th		1st Sessional Exam.	11 th	Revision
12 th	1 st 2 nd 3 rd	Anatomy and physiology of GIT Anatomy and functions of accessory glands Physiology of digestion and absorption	12 th	Revision
13 th	1 st 2 nd 3 rd	Revision Histology of skeletal muscles Physiology of muscle contraction	13 th	Recording of blood pressure in various postures, different arms, before and after exertion and interpreting the results.
14 th	1 st 2 nd 3 rd	Disorder of skeletal muscles Revision Classification of nervous system	14 th	Revision
15 th	1 st 2 nd 3 rd	Anatomy and physiology of cerebrum , cerebellum, mid brain Function of hypothalamus, medulla , basal ganglia Spinal cord structure and reflexes	15 th	Revision
16 th	1 st 2 nd 3 rd	Names and function of cranial nerves Anatomy and physiology of sympathetic and parasympathetic nervous system revision	16 th	Recording of body temperature (using mercury, digital and IR thermometers at various locations), Pulse rate/Heart rate (at various locations in the body, before and after exertion), Respiratory Rate

17 th	1 st 2 nd 3 rd	Anatomy and physiology of eye Anatomy and physiology of ear Anatomy and physiology of skin	17 th	Recording Pulse Oxygen (before and after exertion)
18 th	1 st 2 nd 3 rd	Anatomy and physiology of tongue Anatomy and physiology of nose revision	18 th	Recording force of air expelled using Peak Flow Meter
19 th	1 st 2 nd 3 rd	Anatomy and physiology of urinary system Physiology of urine formation Renin- angiotensin system	19 th	Revision
20 th	1 st 2 nd 3 rd	Clearance tests and micturition Revision Pituitary gland	20 th	Measurement of height, weight, and BMI
21 st	1 st 2 nd 3 rd	Adrenal gland Thyroid gland Parathyroid gland	21 st	Study of various systems and organs with the help of chart, models, and specimens A. Cardiovascular system B. Respiratory system C. Digestive system D. Urinary system E. Endocrine system F. Reproductive system G. Nervous system H. Eye I. Ear J. skin

22 nd	1 st 2 nd 3 rd	Pancreas Gonads revision	22 nd	revision
23 rd		Winter Vacations		
24 th	1 st 2 nd 3 rd	Revision Revision Revision		
25 th		Second Sessional Exam. (Tentative)		
26 th	1 st 2 nd 3 rd	Anatomy of male reproductive system Anatomy of female reproductive system Physiology of menstruation		
27 th	1 st 2 nd 3 rd	Spermatogenesis Oogenesis pregnancy		
28 th	1 st 2 nd 3 rd	Parturition Revision Revision		

