

DEPARTEMNT OF PHYSIOLOGY, NRIMC

September:

Week	Theory Topic	Comp.No.	Prac. Comp.No.	
Week 1	Homeostasis, Cell, Intercellular communication, apoptosis, transport mechanisms across cell membrane	PY1.1-1.5	PY2.11-2.13	PY2.11-2.13
Week 2	Fluid compartments of body, Blood components, plasma proteins, Integrated with Biochemistry (PY2.2)	PY1.6 2.1-2.2		
Week 3	RBC, Hb, Integrated with Biochemistry & Pathology (PY2.3, 2.5)	PY2.3-2.5		
Week 4	WBC, Immunity, Integrated with Biochemistry	PY2.6& 2.10		

October

Week	Theory Topic	Comp.No.	Prac. Comp.No.	
Week 1	platelets, Hemostasis, anticoagulants, BT,CT, Blood groups, Blood transfusion, ECE, Blood bank & Integrated with Pathology	PY2.7-2.9	PY2.11-2.13	PY2.11-2.13
Week 2	RMP, Action Potential, Nerve Physiology – Integrated with Anatomy & Gen.Medicine	PY1.8 PY3.1- 3.3		
Week 3	Muscle Physiology - Integrated with Anatomy, Biochemistry & Gen.Medicine	PY3.7-3.13, 3.17		PY1.9 PY3.18, 3.14
Week 4	NMJ, Blocking agents, Myasthenia gravis, Integrated with anesthesia, Pharmacology & Pathology	PY3.4-3.6		

November

Week	Theory Topic	Comp.No.	Prac. Comp.No.	
Week1	CVS-Introduction, Properties of cardiac muscle	PY5.1-5.2	PY11.13	PY3.18 3.16
Week 2	Cardiac Cycle, ECG, Integrated with Gen.Medicine & Anatomy	PY5.3-5.6	PY5.13	
Week 3	ANS, Cardiovascular regulatory mechanism, heart rate, cardiac output	PY10.5 PY5.8-5.9	PY5.12, 5.14-5.16	
Week 4	Hemodynamics, blood pressure	PY5.7&5.9		

December

Week	Theory Topic	Comp.No.	Prac. Comp.No.	
Week 1	Regional Circulations, Shock, Integrated with Gen.Medicine	PY5.10 -5.11	PY5.12, 5.14-5.16	PY3.15
Week 2	RS-Introduction, Mechanics,	PY6.1-6.2	PY6.8-6.10	
Week 3	Ventilation, Lung volumes & capacities, dead space	PY6.2		
Week 4	O ₂ , CO ₂ transport, regulation of Respiration,	PY6.3		

January

Week	Theory Topic	Comp.No.	Prac. Comp.No.	
Week 1	Hypoxia, Applied aspects High altitude & deep sea,	PY6.4, 6.6	PY11.14 PY3.15	PY6.8-6.10
Week 2	Artificial Respiration, Lung function test, Exercise Physiology, sedentary life style, physiology of meditation, Integrated with Respiratory Medicine	PY6.5, 6.7 PY11.4,11.5, 11.8, 11.12		
Week 3	GIT- Introduction, Saliva, Gastric, Pancreatic Intestine,	PY4.1, 2, 7, 8, 9		
Week 4	Bile , LFT, GFT, PEFT, applied Physiology	PY4.1, 2, 7, 8, 9		

February

Week	Theory Topic	Comp.No.	Prac. Comp.No.	
Week1	Movements, Digestion & absorption, GI Hormones - Integrated with Anatomy, Biochemistry & Gen. Medicine	PY4.3-6,	PY4.10	
Week 2	Excretory System- Structure, Mech. Of urine formation,	PY7.1-3		
Week-3	Micturition, Cystometrogram, Renal clearance & RFT, Dialysis Integrated with Biochemistry & Gen. Medicine Temp. regulation, skin, fever	PY7.4-9 &PY1.7 PY11.1-11.3		
Week-4	Endocrines-General Introduction, Pituitary, Thyroid,	PY8.2, 8.6		

March

Week	Theory Topic	Comp.No.	Prac. Comp.No.	
Week 1	Parathyroid, Adrenal gland,	PY8.1, 8.2,		
Week 2	Pancreas, Thymus & Pineal gland Integrated with Anatomy	PY8.2-8.4		
Week 3	Metabolic syndrome, obesity and stress response, Growth & Growth charts Integrated with Paediatrics	Py8.5 PY11.6,7,9,10	PY11.9-11.10	
Week 4	Genetics, Puberty, Female reproductive system Integrated with OBGY&SPM	PY9.1,2 PY9.4-9.8, 9.10-9.12		

April

Week	Theory Topic	Comp.No.	Prac. Comp.No.	
Week 1	Male reproductive System	PY9.3,9.6, 9.7, 9.9		
Week 2	CNS – Introduction, Synapse Integrated with Anatomy	PY10.1-10.2 PY10.10	PY10.11	PY10.11
Week 3	Reflexes, receptors, Sensory tracts. Integrated with Anatomy	PY10.2-10.3		
Week 4	Pain, Descending tracts, Ascending tracts, spinal cord lesions Integrated with Anatomy	PY10.3, 4, 6		

May

Week	Theory Topic	Comp.No.	Prac. Comp.No.	
Week 1	Cerebral cortex, basal ganglia & cerebellum Integrated with Anatomy & Psychiatry	PY10.7, 11.11	PY10.11	PY10.11
Week 2	Thalamus, Hypothalamus, RF, EEG, Sleep.	PY10.5,7,8,12		
Week 3	Vacation			
Week 4				

June

Week	Theory Topic	Comp.No.	Prac. Comp.No.	
Week 1	Learning Memory, speech, Lymbic system, Integrated with Anatomy & Psychiatry	PY10.4, 9 PY10.7	PY10.11	
Week 2	SS-Olfaction, Taste,	PY10.13-14	PY10.20	
Week 3	Hearing, Integrated with ENT	PY10.15-16		
Week 4	Physiology of Vision Integrated with Ophthalmology	PY10.17-10.19		

