

RAJASTHAN UNIVERSITY OF HEALTH SCIENCE

D. Pharm Ist Year Syllabus

HUMAN ANATOMY AND PHYSIOLOGY – THEORY (ER20-14T)

Chapter No.	TOPICS
1	1.1 Scope of Anatomy and Physiology
	1.2 Definition of various terminologies
2	Structure of Cell: Components and its functions
3	Tissues of the human body: Epithelial, Connective, Muscular and Nervous tissues – their sub-types and Characteristics.
4	Osseous system: structure and functions of bones of axial and appendicular skeleton Classification, types and movements of joints, disorders of joints
5	Haemopoietic System: <ul style="list-style-type: none"> Composition and functions of blood Process of Hemopoiesis Characteristics and functions of RBCs, WBCs, and platelets Mechanism of Blood Clotting Importance of Blood groups
6	Lymphatic System: <ul style="list-style-type: none"> Lymph and lymphatic system, composition, function and its formation. Structure and functions of spleen and lymph node.
7	Cardiovascular System: <ul style="list-style-type: none"> Anatomy and Physiology of heart Blood vessels and circulation (Pulmonary, coronary and systemic circulation) Cardiac cycle and Heart sounds, Basics of ECG Blood pressure and its regulation
8	Respiratory System: <ul style="list-style-type: none"> Anatomy of respiratory organs and their functions. Regulation and Mechanism of respiration. Respiratory volumes and capacities – definitions
9	Digestive System: <ul style="list-style-type: none"> Anatomy and Physiology of the GIT Anatomy and functions of accessory glands Physiology of digestion and absorption
10	Skeletal Muscles: <ul style="list-style-type: none"> Histology Physiology of muscle contraction Disorder of skeletal muscles
11	Nervous System: <ul style="list-style-type: none"> Classification of nervous system Anatomy and physiology of cerebrum, cerebellum, midbrain Function of hypothalamus, medulla oblongata and basal ganglia Spinal cord-structure and reflexes Names and functions of cranial nerves. Anatomy and physiology of sympathetic and parasympathetic nervous system (ANS)

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12	Sense organs – Anatomy and physiology of: <ul style="list-style-type: none">• Eye• Ear• Skin• Tongue• Nose
13	Urinary System: <ul style="list-style-type: none">• Anatomy and physiology of urinary system• Physiology of urine formation• Renin – angiotensin system• Clearance tests and micturition
14	Endocrine System: (Hormones and their functions) <ul style="list-style-type: none">• Pituitary Gland• Adrenal Gland• Thyroid and Parathyroid Gland• Pancreas and Gonads
15	Reproductive System: <ul style="list-style-type: none">• Anatomy of male and female reproductive system• Physiology of menstruation• Spermatogenesis and Oogenesis• Pregnancy and parturition