

(NAAC Accredited 'B' Grade Govt.-Aided College)
NARAJOLE:: PASCHIM MEDINIPUR :: WEST BENGAL :: Pin-721211

Phone: +91- 9475429270; E-mail: <u>narajoleracollege@rediffmail.com</u>

Website: http://www.narajolerajcollege.ac.in



Name of the Department: Physiology

Name and Distinctive number of the paper: MAJOR (MJ)

Topics: Fundamental concept of immune System, Physiology of Respiratory

System

Session: 2023-24

Semester: I

Name of faculty who	Broad topic in	Course Outcome
teaches the topics	university syllabus	
Dr. Parimal Dua	Fundamental concept of Immune System	Through the study of the fundamental concepts of the immune system, students acquire: 1. Basic Immunology Concepts: Understanding immune system components, including innate and adaptive immunity. 2. Immune Response Mechanisms: Knowledge of innate defences (e.g., barriers, phagocytosis) and adaptive responses (e.g., antigen presentation, memory formation). 3. Cellular and Molecular Interactions: Insights into antigen-antibody interactions and signal transduction pathways. 4. Immune Disorders: Awareness of autoimmunity, immunodeficiencies, and hypersensitivities. 5. Clinical Applications: Understanding of vaccination, immunotherapy, and diagnostic techniques. 6. Evolution and Adaptation: Knowledge of immune system evolution and pathogen evasion strategies. 7. Research Skills: Proficiency in immunology research techniques, data analysis, and critical evaluation. 8. Ethical and Societal Implications: Awareness of bioethics and the role of the immune system in public health.



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		Through the study of the physiology of the
		respiratory system, students acquire:
Dr. Parimal Dua	Physiology of Respiratory system	 Anatomy and Structure: Understanding the components of the respiratory system, including the lungs, airways, diaphragm, and related structures. Respiratory Mechanics: Knowledge of the mechanics of breathing, including inspiration and expiration, and the role of the diaphragm and intercostal muscles. Gas Exchange: Insights into the processes of oxygen and carbon dioxide exchange in the alveoli and the transport of these gases in the blood. Control of Respiration: Understanding how breathing is regulated by neural and chemical mechanisms. Lung Volumes and Capacities: Familiarity with different lung volumes and capacities (e.g., tidal volume, vital capacity) and their measurement. Pathophysiology: Awareness of common respiratory disorders and diseases (e.g., asthma, COPD, pneumonia) and their physiological basis. Respiratory Physiology in Exercise:



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Name of faculty who	Broad topic in	Course Outcome
teaches the topics	university syllabus	Course Outcome
Suman Kalyan Khanra	Blood & Body fluid	Through the study of blood and body fluids, students acquire: 1. Components of Blood: Understanding the different components of blood, including red blood cells, white blood cells, platelets, and plasma. 2. Functions of Blood: Knowledge of the roles of blood, such as oxygen and nutrient transport, waste removal, immune response, and clotting. 3. Haematopoiesis: Insights into the process of blood cell formation in the bone marrow. 4. Blood Typing and Transfusion: Understanding blood types, the Rh factor, and principles of blood transfusion compatibility. 5. Body Fluids: Knowledge of the various body fluids (e.g., lymph, interstitial fluid, cerebrospinal fluid) and their roles. 6. Fluid Balance and Homeostasis: Awareness of mechanisms regulating fluid balance and electrolyte homeostasis in the body. 7. Blood Disorders: Familiarity with common blood disorders and diseases, such as anaemia, leukaemia, and clotting disorders. 8. Diagnostic Techniques: Proficiency in techniques for analyzing blood and body fluids, such as complete blood count (CBC), blood smears, and biochemical tests. By studying these topics, students gain a comprehensive understanding of the composition and functions of blood and body fluids, the physiological processes involved, and the basis for various haematological and fluid balance-related conditions.



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		Through the study of the cardiovascular system, students acquire:
Suman Kalyan Khanra	Cardiovascular System	1. Anatomy of the Heart: Understanding the structure of the heart, including chambers, valves, and major blood vessels. 2. Cardiac Cycle: Knowledge of the phases of the cardiac cycle, including systole and diastole, and how the heart pumps blood. 3. Electrical Conduction: Insights into the heart's electrical conduction system, including the sinoatrial (SA) node, atrioventricular (AV) node, and the conduction pathways. 4. Blood Vessels: Understanding the types and functions of blood vessels (arteries, veins, capillaries) and the principles of blood flow and pressure. 5. Blood Circulation: Knowledge of systemic and pulmonary circulation and how oxygenated and deoxygenated blood are transported throughout the body. 6. Cardiac Output: Understanding factors that influence cardiac output, such as heart rate and stroke volume. 7. Regulation of Blood Pressure: Awareness of mechanisms that regulate blood pressure, including neural and hormonal controls. 8. Cardiovascular Diseases: Familiarity with common cardiovascular diseases, such as hypertension, atherosclerosis, myocardial infarction, and heart failure. 9. Diagnostic Techniques: Proficiency in techniques used to assess cardiovascular function, such as electrocardiography (ECG), echocardiography, and blood pressure measurement. 10. Preventive and Therapeutic Measures: Knowledge of lifestyle factors and medical treatments that can prevent or manage cardiovascular diseases. By studying these topics, students gain a comprehensive understanding of how the cardiovascular system functions, its role in maintaining health, and the basis for various cardiovascular conditions and their treatments.



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Name of the Department: Physiology

Name and Distinctive number of the paper: MAJOR (MJ)

Topics: Fundamental concept of immune System, Physiology of Respiratory

System

Session: 2023-24

Semester: I

Name of faculty who Broad topic	Course Outcome
teaches the topics university syl	abus
Dr. Parimal Dua Fundamental confirmation of Immune Systems	5. Clinical Applications: Understanding of



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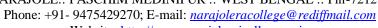
Through the study of the physiology of the respiratory system, students acquire: 1. Anatomy and Structure: Understanding the components of the respiratory system, including the lungs, airways, diaphragm, and related structures. 2. **Respiratory Mechanics:** Knowledge of the mechanics of breathing, including inspiration and expiration, and the role of the diaphragm and intercostal muscles. 3. Gas Exchange: Insights into the processes of oxygen and carbon dioxide exchange in the alveoli and the transport of these gases in the blood. 4. **Control of Respiration:** Understanding how breathing is regulated by neural and chemical mechanisms. 5. **Lung Volumes and Capacities:** Familiarity with different lung volumes and capacities (e.g., tidal volume, vital capacity) and their measurement. 6. **Pathophysiology:** Awareness of common Physiology of Dr. Parimal Dua respiratory disorders and diseases (e.g., asthma, COPD, pneumonia) and their Respiratory system physiological basis. 7. Respiratory Physiology in Exercise: Knowledge of how exercise affects respiratory function and gas exchange. 8. **Research and Diagnostic Skills:** Proficiency in techniques to assess respiratory function, such as spirometry and blood gas analysis. By studying these topics, students gain a comprehensive understanding of how the respiratory system functions, its importance in overall health, and the basis for various respiratory conditions and their treatments.



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teaches the topics	university syllabus	Course Outcome
Suman Kalyan Khanra	Blood & Body fluid	Through the study of blood and body fluids, students acquire: 1. Components of Blood: Understanding the different components of blood, including red blood cells, white blood cells, platelets, and plasma. 2. Functions of Blood: Knowledge of the roles of blood, such as oxygen and nutrient transport, waste removal, immune response, and clotting. 3. Haematopoiesis: Insights into the process of blood cell formation in the bone marrow. 4. Blood Typing and Transfusion: Understanding blood types, the Rh factor, and principles of blood transfusion compatibility. 5. Body Fluids: Knowledge of the various body fluids (e.g., lymph, interstitial fluid, cerebrospinal fluid) and their roles. 6. Fluid Balance and Homeostasis: Awareness of mechanisms regulating fluid balance and electrolyte homeostasis in the body. 7. Blood Disorders: Familiarity with common blood disorders and diseases, such as anaemia, leukaemia, and clotting disorders. 8. Diagnostic Techniques: Proficiency in techniques for analyzing blood and body fluids, such as complete blood count (CBC), blood smears, and biochemical tests. By studying these topics, students gain a comprehensive understanding of the composition and functions of blood and body fluids, the physiological processes involved, and the basis for various haematological and fluid balance-related conditions.



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Through the study of the cardiovascular system, students acquire: 1. Anatomy of the Heart: Understanding the structure of the heart, including chambers, valves, and major blood vessels. 2. Cardiac Cycle: Knowledge of the phases of the cardiac cycle, including systole and diastole, and how the heart pumps blood. 3. **Electrical Conduction:** Insights into the heart's electrical conduction system, including the sinoatrial (SA) node, atrioventricular (AV) node, and the conduction pathways. 4. **Blood Vessels:** Understanding the types and functions of blood vessels (arteries, veins, capillaries) and the principles of blood flow and pressure. 5. **Blood Circulation:** Knowledge of systemic and pulmonary circulation and how oxygenated and deoxygenated blood are transported throughout the body. 6. **Cardiac Output:** Understanding factors that Suman Kalyan Cardiovascular influence cardiac output, such as heart rate and stroke volume. Khanra System 7. **Regulation of Blood Pressure:** Awareness of mechanisms that regulate blood pressure, including neural and hormonal controls. 8. Cardiovascular Diseases: Familiarity with common cardiovascular diseases, such as hypertension, atherosclerosis, myocardial infarction, and heart failure. 9. **Diagnostic Techniques:** Proficiency in techniques used to assess cardiovascular function, such as electrocardiography (ECG), echocardiography, and blood pressure measurement. 10. Preventive and Therapeutic Measures: Knowledge of lifestyle factors and medical treatments that can prevent or manage cardiovascular diseases. By studying these topics, students gain comprehensive understanding of how the its cardiovascular functions, role system maintaining health, and the basis for various cardiovascular conditions and their treatments.



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Name of the Department: Physiology

Name and Distinctive number of the paper: MAJOR (MJ)

Topics: Fundamentals of body fluids, Immunity, Circulation and Respiration

Session: 2023-24

Semester: I

Name of faculty who	Broad topic in	Course Outcome
teaches the topics	university syllabus	
Dr. Parimal Dua	Fundamental concept of Immune System	Through the study of the fundamental concepts of the immune system, students acquire: 1. Basic Immunology Concepts: Understanding immune system components, including innate and adaptive immunity. 2. Immune Response Mechanisms: Knowledge of innate defences (e.g., barriers, phagocytosis) and adaptive responses (e.g., antigen presentation, memory formation). 3. Cellular and Molecular Interactions: Insights into antigen-antibody interactions and signal transduction pathways. 4. Immune Disorders: Awareness of autoimmunity, immunodeficiencies, and hypersensitivities. 5. Clinical Applications: Understanding of vaccination, immunotherapy, and diagnostic techniques. 6. Evolution and Adaptation: Knowledge of immune system evolution and pathogen evasion strategies. 7. Research Skills: Proficiency in immunology research techniques, data analysis, and critical evaluation. 8. Ethical and Societal Implications: Awareness of bioethics and the role of the immune system in public health. 9.
Dr. Parimal Dua	Physiology of Respiratory system	Through the study of the physiology of the respiratory system, students acquire: 1. Anatomy and Structure: Understanding the components of the respiratory system, including the lungs, airways, diaphragm, and related structures.



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2.	Respiratory Mechanics: Knowledge of the
	mechanics of breathing, including inspiration
	and expiration, and the role of the diaphragm
	and intercostal muscles.

- 3. **Gas Exchange:** Insights into the processes of oxygen and carbon dioxide exchange in the alveoli and the transport of these gases in the blood.
- 4. **Control of Respiration:** Understanding how breathing is regulated by neural and chemical mechanisms.
- 5. Lung Volumes and Capacities: Familiarity with different lung volumes and capacities (e.g., tidal volume, vital capacity) and their measurement.
- 6. **Pathophysiology:** Awareness of common respiratory disorders and diseases (e.g., asthma, COPD, pneumonia) and their physiological basis.
- 7. **Respiratory Physiology in Exercise:** Knowledge of how exercise affects respiratory function and gas exchange.
- 8. **Research and Diagnostic Skills:** Proficiency in techniques to assess respiratory function, such as spirometry and blood gas analysis.

By studying these topics, students gain a comprehensive understanding of how the respiratory system functions, its importance in overall health, and the basis for various respiratory conditions and their treatments.



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Name of faculty who	Broad topic in	Garage Outlines
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Suman Kalyan Khanra	Blood & Body fluid	Through the study of blood and body fluids, students acquire: 1. Components of Blood: Understanding the different components of blood, including red blood cells, white blood cells, platelets, and plasma. 2. Functions of Blood: Knowledge of the roles of blood, such as oxygen and nutrient transport, waste removal, immune response, and clotting. 3. Haematopoiesis: Insights into the process of blood cell formation in the bone marrow. 4. Blood Typing and Transfusion: Understanding blood types, the Rh factor, and principles of blood transfusion compatibility. 5. Body Fluids: Knowledge of the various body fluids (e.g., lymph, interstitial fluid, cerebrospinal fluid) and their roles. 6. Fluid Balance and Homeostasis: Awareness of mechanisms regulating fluid balance and electrolyte homeostasis in the body. 7. Blood Disorders: Familiarity with common blood disorders and diseases, such as anaemia, leukaemia, and clotting disorders. 8. Diagnostic Techniques: Proficiency in techniques for analyzing blood and body fluids, such as complete blood count (CBC), blood smears, and biochemical tests. By studying these topics, students gain a comprehensive understanding of the composition and functions of blood and body fluids, the physiological processes involved, and the basis for various haematological and fluid balance-related conditions.



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		Through the study of the cardiovascular system,
		students acquire:
Suman Kalyan Khanra	Cardiovascular System	 Anatomy of the Heart: Understanding the structure of the heart, including chambers, valves, and major blood vessels. Cardiac Cycle: Knowledge of the phases of the cardiac cycle, including systole and diastole, and how the heart pumps blood. Electrical Conduction: Insights into the heart's electrical conduction system, including the sinoatrial (SA) node, atrioventricular (AV) node, and the conduction pathways. Blood Vessels: Understanding the types and functions of blood vessels (arteries, veins, capillaries) and the principles of blood flow and pressure. Blood Circulation: Knowledge of systemic and pulmonary circulation and how oxygenated and deoxygenated blood are transported throughout the body. Cardiac Output: Understanding factors that influence cardiac output, such as heart rate and stroke volume. Regulation of Blood Pressure: Awareness of mechanisms that regulate blood pressure, including neural and hormonal controls. Cardiovascular Diseases: Familiarity with common cardiovascular diseases, such as hypertension, atherosclerosis, myocardial infarction, and heart failure. Diagnostic Techniques: Proficiency in techniques used to assess cardiovascular function, such as electrocardiography (ECG), echocardiography, and blood pressure measurement. Preventive and Therapeutic Measures: Knowledge of lifestyle factors and medical treatments that can prevent or manage cardiovascular diseases. By studying these topics, students gain a comprehensive understanding of how the cardiovascular system functions, its role in maintaining health, and the basis for various cardiovascular conditions and their treatments.



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Name of the Department: Physiology

Name and Distinctive number of the paper: MINOR (MI)

Topics: Fundamental concept of immune System, Physiology of Respiratory

System

Session: 2023-24

Semester: II

N. 00	.	4
Name of faculty who	Broad topic in	Course Outcome
teaches the topics	university syllabus	
Dr. Parimal Dua	Cellular Physiology	typically includes: 1. Understanding Cellular Structure and Function: Grasping the fundamental components of cells, such as membranes, organelles, and cytoskeleton, and their specific functions. 2. Cellular Metabolism: Learning about metabolic pathways, including glycolysis, the citric acid cycle, oxidative phosphorylation, and how these processes are regulated. 3. Cell Differentiation and Apoptosis: Understanding how cells differentiate into specific types and the processes regulating programmed cell death (apoptosis). 4. Application to Disease: Applying knowledge of cellular physiology to understand various diseases, including cancer, metabolic disorders, and neurodegenerative diseases, and exploring potential therapeutic interventions.



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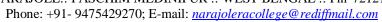




		The course outcome of studying biophysical
		principles typically includes:
		1. Fundamental Biophysics Knowledge:
		Understanding the basic principles of physics
		as they apply to biological systems, including
		mechanics, thermodynamics, and
		electromagnetism.
		2. Molecular and Cellular Biophysics:
		Learning how physical principles govern the
		behaviour of molecules and cells, including
		protein folding, molecular motors, and
		membrane dynamics.
Dr. Parimal Dua	Biophysical Principles	3. Structure-Function Relationships:
		Understanding how the structure of biological
		molecules, such as proteins and nucleic acids,
		relates to their function and dynamics.
		4. Research and Experimental Design:
		Developing skills in designing and
		conducting biophysical experiments, as well
		as analyzing and interpreting data.
		5. Application to Health and Disease:
		Applying biophysical principles to understand
		physiological processes and pathologies, and
		exploring their implications for medical
		research and biotechnology.



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Name of faculty who	Broad topic in	Course Outcome
teaches the topics	university syllabus	Course Outcome
Suman Kalyan Khanra	Chemistry of Biomolecules (Carbohydrate)	The course outcome of studying carbohydrates typically includes: 1. Carbohydrate Structure and Classification: Understanding the basic structures of carbohydrates, including monosaccharides, and polysaccharides, oligosaccharides, and polysaccharides, and their classification based on these structures. 2. Chemical Properties and Reactions: Learning about the chemical properties of carbohydrates and their reactions, including glycosidic bond formation, isomerization, oxidation, and reduction. 3. Carbohydrate Metabolism: Gaining a thorough understanding of carbohydrate metabolism, including glycolysis, gluconeogenesis, the citric acid cycle, and the pentose phosphate pathway, as well as the regulation of these metabolic pathways. 4. Function and Role in Biological Systems: Understanding the roles of carbohydrates in biological systems, such as energy storage, structural components, signaling molecules, and recognition sites on cell surfaces. 5. Glycobiology: Exploring the field of glycobiology, which studies the structure, biosynthesis, and function of glycans (carbohydrate chains) and glycoconjugates (molecules with carbohydrate components). 6. Application in Biotechnology and Industry: Exploring the applications of carbohydrates in biotechnology and industry, including the production of biofuels, biopolymers, and pharmaceuticals.



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Proteins



		Froteins
Suman Kalyan Khanra	Chemistry of Biomolecules	 Protein Structure and Function: Understanding the primary, secondary, tertiary, and quaternary structures of proteins. Learning about protein folding, stability, and the forces that determine protein conformation. Protein Synthesis and Degradation: Exploring the mechanisms of protein biosynthesis, including transcription, translation, and post-translational modifications. Studying protein degradation pathways, such as the ubiquitin-proteasome system and autophagy. Protein Function and Interaction: Examining the diverse functions of proteins, including enzymatic catalysis, signal transduction, transport, and structural roles. Studying protein-protein interactions and their role in cellular processes.
		1. Structure and Properties of Nucleic Acids:



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		 Learning about the classification of lipids based on their chemical structure and function. Lipid Metabolism: Studying the pathways of lipid metabolism, including fatty acid synthesis, beta-oxidation, and lipid transport. Understanding the regulation of lipid metabolism and its role in energy homeostasis.
Name of faculty who teaches the topics	Broad topic in university syllabus	Course Outcome
Suman Kalyan Khanra	Digestive System & Metabolism	Digestive System 1. Anatomy and Physiology of the Digestive System: Understanding the structure and function of the digestive organs, including the mouth, esophagus, stomach, intestines, liver, pancreas, and gallbladder. Learning about the histology of the digestive tract and the role of different cell types in digestion. Digestive Processes and Enzymes: Studying the mechanical and chemical processes of digestion, including the role of digestive enzymes and bile in breaking down food into absorbable nutrients. Understanding the process of nutrient absorption in the small intestine and the role of the large intestine in water and electrolyte balance. Regulation of Digestion: Exploring the neural and hormonal regulation of digestive processes, including the enteric nervous system and the role of hormones such as gastrin, cholecystokinin, and secretin. Understanding the feedback mechanisms that control digestive enzyme secretion and gastrointestinal motility. Nutrient Assimilation and Transport: Learning how carbohydrates, proteins, fats, vitamins, and minerals are



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	digested, absorbed, and transported in
	the body.
	 Studying the impact of different diets
	and dietary components on digestion
	and nutrient absorption.
	5. Disorders of the Digestive System:
	 Understanding common digestive
	disorders and diseases, such as
	gastroesophageal reflux disease
	(GERD), peptic ulcers, inflammatory
	bowel disease (IBD), and irritable bowel
	syndrome (IBS).
	 Learning about the causes, symptoms,
	diagnosis, and treatment of these
	disorders.
	6. Clinical and Diagnostic Techniques:
	 Gaining knowledge of clinical
	techniques used to diagnose and treat
	digestive system disorders, such as
	endoscopy, colonoscopy, imaging
	studies, and laboratory tests.