

Notice

Human Biology (BHS111)

Chapters and topics for Final Exam (371)

Chapter	Section	Topics	Page No.
Chapter 8 Digestive System and Nutrition	8.1 – 8.5	Overview of digestion (wall of the digestive tract), The mouth, pharynx, and esophagus (the mouth, the teeth and tongue, the pharynx and esophagus), The stomach and small intestine (the stomach, the small intestine, digestion is completed in the small intestine, nutrients are absorbed in the small intestine, lactose intolerance), The accessory organs and regulation of secretions (the accessory organs, liver disorders, regulations of digestive secretions) The large intestine and defecation (Functions of large intestine)	168 – 180
Chapter 9 Respiratory System	9.1 – 9.6	The Respiratory System, The upper respiratory tract (the nose, the pharynx, the larynx), The lower respiratory tract (the trachea, the bronchial tree, the lungs, the alveoli) Mechanism of breathing (inspiration, expiration, maximum inspiratory effort and forced expiration, volume of air exchanged during ventilation), Control of ventilation (nervous control of breathing, chemical control of breathing), Gas exchanges in the body (external respiration, internal respiration).	196 – 209
Chapter 10 Urinary System	10.1 – 10.4	The Urinary System (functions of the urinary system, organs of the urinary system), Kidney structure (anatomy of a nephron, parts of a nephron), Urine formation (glomerular filtration, tubular reabsorption, tubular secretion), Kidneys and Homeostasis (kidneys excrete waste molecules, water-salt balance, acid-base balance of body fluids, the kidneys assist other systems)	217 – 233
Chapter 11 Skeletal System	11.1 – 11.4	Overview of skeletal system (functions of the skeleton, anatomy of a long bone), Bones of the axial skeleton (the skull, the hyoid bone, the vertebral column, the rib cage), Bones of the appendicular skeleton (the pectoral girdle and upper limb, the pelvic girdle and lower limb), Articulations.	238 – 251
Chapter 12 Muscular System	12.1 – 12.2	Overview of the muscular system (types of muscle, skeletal muscles of the body, name and action of skeletal muscles), Skeletal muscle Fiber contraction (muscle fibers and how they slide, control of muscle fiber contraction).	260 – 268

<p align="center">Chapter 13 Nervous System</p>	<p align="center">13.1, 13.2 and 13.4</p>	<p>Overview of the nervous system (nervous tissue, anatomy of a neuron, myelin sheath, physiology of a neuron, the synapse), The central nervous system (the spinal cord, the brain), The peripheral nervous system (somatic system, autonomic system, the somatic versus the autonomic systems).</p>	<p align="center">283 – 303</p>
<p align="center">Chapter 15 Endocrine System</p>	<p align="center">15.1 – 15.7</p>	<p>Endocrine glands (hormones are chemical signals), Hypothalamus and Pituitary gland (posterior pituitary, anterior pituitary), Thyroid and Parathyroid glands (thyroid gland, parathyroid glands), Adrenal glands (adrenal medulla, adrenal cortex) , Pancreas (Diabetes mellitus, types of diabetes), Other endocrine glands (testes and ovaries, thymus, pineal gland, hormones from other organs or tissues), Homeostasis (responding to external changes, responding to internal changes, controlling the reproductive system, the neuro-endocrine system)</p>	<p align="center">333 – 356</p>

Note:

- 1. The final exam will be consisted of 60 questions for 60 marks.**
- 2. The duration for exam will be 2 hours (120 minutes).**
- 3. From chapters 8 to 12 – there will be 8 questions from each of these chapters (40 questions).**
- 4. From chapters 13 & 15 – there will be 10 questions from these two chapters (20 questions)**

Dr. Farmanur Rahman Khan
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