

THEMATIC PLAN
of the Lectures and Practices on Histology
for 2nd course of 4th semester

Module 1 - Cardio-Vascular System

THE THEMATIC PLAN OF LECTURES & PRACTICES

№•	Theme	Employment	Hours
1	Blood and lymph vascular system. Classification. Development, structure, regeneration.	lecture	2
2	Heart. Development, structure, regeneration.	lecture	2
3	Blood vessels: arteries and veins. Lymph vessels.	practice	2
4	Microcirculation.: arterioles, capillaries, venules. Arterio-venular anastomosis.	practice	2
5	Endocardium, myocardium, epicardium of heart. Pericardium.	practice	2
		Total	10

Module 2 - Lymphoid Organs & Immune System

THE THEMATIC PLAN OF LECTURES & PRACTICES

№	Theme	Employment	Hours
1	Lymphoid organs. Classification. Central organs. Peripheral lymphoid organs . Development, structure, regeneration.	lecture	2
2	Immune system. Cells of immune system. Cell-mediated immunity and antibody-mediated immunity.	lecture	2
3	Central organs: thymus, bone marrow.	practice	2
4	Peripheral lymphoid organs: spleen, lymph node, tonsils. Mucosa-associated lymphoid tissue (MALT).	practice	2
		Total	8

Module 3 - Endocrine System

THE THEMATIC PLAN OF LECTURES & PRACTICES

№	Theme	Employment	Hours
1	Endocrine system. Classification. Central endocrine organs. Peripheral endocrine glands. Development, structure,	lecture	2
2	Central endocrine organs: hypothalamus, hypophysis, epiphysis.	practice	2
3	Peripheral endocrine glands: adrenal, thyroid, parathyroid. Endocrine islets of pancreas.	practice	2
		Total	6

Module 4 - Respiratory System

THE THEMATIC PLAN OF LECTURES & PRACTICES

№	Theme	Employment	Hours
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1	Respiratory system. Classification. Lungs. Conducting passages. Respiratory passages. Development, structure,	lecture	2
2	Conducting passages of respiratory system: nasal cavities, pharynx, larynx, trachea, bronchi, terminal bronchioles.	practice	2
3	Respiratory passages of lung: respiratory bronchioles, alveolar ducts, alveolar sacs, pulmonary alveoli.	practice	2
		Total	6

Module 5 - Female Reproductive System

THE THEMATIC PLAN OF LECTURES & PRACTICES

№	Theme	Employment	Hours
1	Female reproductive system. Classification. Gonads. Development, structure, regeneration.	lecture	2
2	Genital ducts. Mammary glands. Development, structure, regeneration.	lecture	2
3	Human embryogenesis.	lecture	2
4	Ovaries. Cortex. Follicles & corpus luteum. Medulla.	practice	2
5	Oviducts. Uterus. Uterine cervix. Vagina. Mammary glands: lactating, non-lactating.	practice	2
6	Ovum & Zygote. Blastula. Gastrula & Neurula.	practice	2
7	Provisional organs. Chorion. Amnion. Decidua & Placenta.	practice	2
		Total	14

Docent

Kasmambetova Sh.K.

THEMATIC PLAN
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for 3rd course of 5th semester

Module 1 - Digestive System

THE THEMATIC PLAN OF LECTURES & PRACTICES

№	Theme	Employment	Hours
1	Digestive system. Classification. Development. Oral cavity. Structure, regeneration.	lecture	2
2	Gastrointestinal tract. Development. Structure, regeneration.	lecture	2
3	Large digestive glands. Development, structure, regeneration.	lecture	2
4	Oral cavity: lips, cheeks, palate, tongue, gums.	practice	2
5	Teeth: dentine, enamel, cementum, pulp. Periodontium.	practice	2
6	Esophagus. Stomach.	practice	2
7	Small intestine. Large intestine.	practice	2
8	Liver. Gall bladder.	practice	2
9	Large salivary glands: parotid, submandibular, sublingual. Exocrine part of pancreas (acinus).	practice	2
		Total	18

Module 2 - Nervous System

THE THEMATIC PLAN OF LECTURES & PRACTICES

№	Theme	Employment	Hours
1	Nervous System. Classification. Central and peripheral organs. Development, structure, regeneration.	lecture	2
2	Sense organs. Classification. Photoreceptor & Audioreceptor systems. Development, structure.	lecture	2
3	Central nervous system: spinal cord, cerebellum, cerebrum.	practice	2
4	Peripheral nervous system: nerve endings, peripheral nerves, spinal and autonomic ganglia.	practice	2
5	Primary-sense organs: eye, olfactory epithelium.	practice	2
6	Secondary-sense organs: ear, taste buds.	practice	2
		Total	12

Module 3 - Skeleto-Muscular System

THE THEMATIC PLAN OF LECTURES & PRACTICES

№	Theme	Employment	Hours
1	Skeleto-muscular system. Development and growth. Structure, regeneration.	lecture	2
2	Integumentary system. Classification. Development, structure, regeneration.	lecture	2

3	Skeletal muscle. Muscle spindle & Golgi tendon organs. Cartilage. Joints. Articular cartilage. Synovial membrane.	practice	2
4	Bone. Intramembranous and endochondral ossification. Bone remodeling.	practice	2
5	Skin: thick, thin. Glands of skin: sweat and sebaceous.	practice	2
6	Hair. Nails.	practice	2
		Total	12

Module 4 - Urinary & Male Reproductive System

THE THEMATIC PLAN OF LECTURES & PRACTICES

№	Theme	Employment	Hours
1	Urinary system. Development of kidney. Structure, regeneration.	lecture	2
2	Excretory passages of urinary system. Structure, regeneration.	lecture	2
3	Male reproductive system. Classification. Gonads. Genital ducts. Development, structure, regeneration.	lecture	2
4	Kidney. Parenchyma. Stroma. Nephrons.	practice	2
5	Calyces, renal pelvis, ureter, urinary bladder, urethra.	practice	2
6	Testes. Genital ducts: intratesticular, excretory.	practice	2
7	Accessory genital glands: prostate gland, seminal vesicles, bulbourethral glands.	practice	2
		Total	14

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