**Y E A R : S E C O N D**

S U B J E C T : A N A T O M Yتشريح

**Theoretical hours: 2**

**Practical hours: 3**

**Units: 7**

**FIRST & SECOND SEMESTERS**

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| **ANATOMY: THEORETICAL SUBJECTS** | **HOURS** |
| DIGESTIVE SYSTEM  General description of the digestive system and its embryological development. Mouth cavity and its content like the tongue and hard palate and soft palate with its muscles and cheeks and lips, blood and nerve supply of the tongue. Salivary glands, pharynx and its layers and muscles and openings. The hyoid apparatus (bones and muscles ). Muscles of mastication. Course and relationship of esophagus and its structures. Classification of stomach, parts of the intestine, duodenum, jejunum, ileum. The caecum and its variations in farm animals. Colon and its variations in farm animals, rectum, anus. Accessory glands like the liver and its ligaments and lobation, gallbladder and the variations in farm animals. Pancreas and its variations. Peritoneum its reflexation in the abdominal cavity to fix the abdominal organs. | **20** |
| RESPIRATORY SYSTEM  Introduction, nose, nasal cavity, nasopharynx, paranasal sinuses, larynx, trachea, lungs, thoracic cavity, pleura. | **10** |
| Lymphatic system  Introduction, lymph, lymph vascular system. lymphatic tissue, lymph vessels, lymph capillaries, lymphatic tissue structures,  solitary lymph nodules, tonsils, lymph nodes, lymphocenter,  hemal nodes, lymph trunks and ducts, thymus, spleen . | **12** |
| NERVOUS SYSTEM  Development of the brain. Central nervous system: brain, parts | **12** |

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| **ANATOMY: THEORETICAL SUBJECTS** | **HOURS** |
| of the brain ( spinal cord, cranial nerves, spinal nerves).  Autonomic nervous system: sympathetic division,  parasympathetic division. Meninges, cerebrospinal fluid. |  |
| SENSE ORGANS  The eye (tunics, parts, chambers, muscles), blood supply, nerve supply, lacrimal apparatus, ear (divisions and cavities). | **6** |
| **Total** | **60** |

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| **ANATOMY: PRACTICAL SUBJECTS** | HOURS |
| General description of the skull. | 3 |
| Cranial cavity, nasal cavity, hyoid bone, mandible. | 3 |
| Skull comparative, paranasal sinuses. | 3 |
| Cervical vertebrae comparative. | 3 |
| Superficial dissection of face region (muscles, nerves, arteries,  veins). | 3 |
| Deep dissection of face region (muscles, nerves, arteries, veins, parotido auricular region, buccal region, mental region). | 3 |
| Dissection of oral cavity with its contents (compassion), muscles of hyoid bone, muscles and papillae of tongue. | 3 |
| Dissection of pharynx (divisions, muscles, openings, muscles of soft palate, muscles of mastication). | 3 |
| Dissection of nasal cavity with its contents (comparison), larynx  (laryngeal cartilages, laryngeal cavities, laryngeal muscles), blood  and nerve supply to the larynx. | 3 |
| Review. | 3 |
| Practical examination. | 3 |
| The eye ( tunics, muscles, nerves, chambers). | 3 |
| The brain, cranial and spinal meninges, parts of brain, cranial  nerves. | 3 |
| Dissection of neck region ( lateral and ventral surfaces )  including chief veins, nerves, arteries, muscles, thyroid gland,  lymph nodes, trachea, esophagus. | 3 |

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| **ANATOMY: PRACTICAL SUBJECTS** | HOURS |
| Dissection of neck region (dorsal and lateral surfaces ) including  chief muscles and nerves . | 3 |
| Dissection of thorax, thoracic fascia, muscles of thoracic wall, respiratory muscles, internal thoracic fascia, pleura, pulmonary ligament, thymus, lung comparative, trachea, bronchial tree. | 3 |
| Nerves in thoracic cavity (phrenic, vagus , sympathetic chain),  pericardium ,cranial and caudal venae cavae, and venous  azygous, longus colli m. and transversus thoracic muscle. | 3 |
| Aortic arch, common brachiocephalic trunk with its branches, thoracic aorta with its branches. | 3 |
| Diaphragm (parts, hiatuses). | 3 |
| Viscera: stomach (comparative). | 3 |
| Viscera: small intestine (comparative). | 3 |
| Viscera: large intestine (comparative). | 3 |
| Viscera: liver and its ligaments (comparative). | 3 |
| Lymph centers in abdominal cavity, spleen. | 3 |
| Review. | 3 |
| Practical examination. | 3 |
| Abdominal aorta with its branches, distribution of autonomic  nervous system in region behind diaphragm. | 3 |
| Terminal branches of abdominal aorta in pelvic cavity with  autonomic nerves in it. | 3 |
| Dissection of abdominal wall (muscles and nerves). | 3 |
| Avian anatomy. | 3 |
| **Total** | 90 |