**Class: B.Sc.-IInd year (Sem.- IVth) Subject: ZOOLOGY**

**M.Sc- Ist Year (Sem-IInd) Session: 2019-20**

**Subject: Paper –VII: Comparative Account Vertebrates-II,**

**Paper- IX: Endocrinology and Neural Physiology**

**Teacher: Dr. RASHMI KOHLI**

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| **S. No** | **Date From** | **Date Upto** | **Topics to be covered** |
| Week 1 | 9th jan , 2020 | 11th jan , 2020 | B.Sc: Type study: Uromastix; Digestive system, Respiratory system  M.Sc I: Comparative organs Respiratory System Vertebrates-Gills |
| Week 2 | 13th jan , 2020 | 18th jan , 2020 | B.Sc: Uromastix: Circulatory, Reproductive system, Nervous System, Eyes, Ears.  M.Sc: Lungs in amphibian, Reptiles, Mammals, Mechanism of Respiration, Accessory respiratory organs. |
| Week 3 | 20nd jan , 2020 | 25th jan , 2020 | B.Sc: Pigeon: Type of Feathers, Digestive system, Respiratory System.  M.Sc: Chemical nature of hormones, action of steroid and proteinaeous hormones. |
| Week 4 | 27th jan , 2020 | 1st feb, 2020 | B.Sc: Pigeon: Reproductive, Nervous, Eye, Ear.  M.Sc: Hypothalamo-hypophyseal pituitary system. |
| Week 5 | 3 th feb, 2020 | 8th feb, 2020 | B.Sc: Human Evolution  M.Sc: Thyroid , Parathyroid Glands, Pancreas, Adrenals. |
| Week 6 | 10th feb, 2020 | 15th feb, 2020 | B.Sc: Poisonous and Non poisonous Snakes  M.Sc: Hormones of Spermatogenesis, folliculogenesis, oogenesis. |
| Week 7 | 17th feb, 2020 | 22 feb, 2020 | B.Sc: Flight Adaptations of Birds, Mammals: Digestive System, Respiratory System.  M.Sc: Paracrine, telocrine, autocrine organs, GI tract Hormones, Prostaglandins. |
| Week 8 | 24th feb, 2020 | 29feb, 2020 | B.Sc: Reproductive Sstem, Nervous system  M.Sc: Urinogenital System comparative account |
| Week 9 | 2nd mar, 2020 | 5 th mar, 2020 | B.Sc: Mammals: Eye, Ear, Arterial, Venous systems.  M.Sc: Nervous System comparative account. |
| Mid semester Exam 6th march-13th march 2020) | | | |
| Week 11 | 14th mar, 2020 | 21th mar, 2020 | B.Sc: Micro, Macro, Mega evolution  M.Sc:.Comparative account of sense organs. |
| Week 12 | 24 th mar, 2020 | **28**  mar, 2020 | B.Sc: Fossils and dating of fossils  M.Sc: Mechanism of Nerve Conduction, Synapse, Na K channels, neurotransmitters, dopamine, serotonin, GABA. |
| Week 13 | 30 march , 2020 | 4th april, 2020 | B.Sc: Biological concept of species  M.Sc: Retinal rod cell excitation, myopia, hypermetropia, astigmatism. |
| Week 14 | 7 april, 2020 | 11th april, 2020 | B.Sc: Dentition in mammals  M.Sc: Mechanism of auditory and olfactory responses, gustatory responses. |
| Week 15 | 15 april, 2020 | 18th april, 2020 | B.Sc: Skeleton of Varanus  M. Sc: Chemotactic signals of plasma membranes |
| Week 16 | 20th april, 2020 | 24th april, 2020 | Revision |
| Week 17 | 27th april, 2020 | 2 May, 2020 | Revision |
| Week 18 | 4 th May, 2020 |  | Revision |