**Lesson Plan**

**Mehr Chand Mahajan DAV College for Women, Sector – 36A, Chandigarh**

**Monthly Teaching Plans- Odd Semester (Semester-III)**

**Session – 2020-21**

**Department- Zoology**

**Name of the Teacher- Ms. Kadambari Pathania**

**Class- B.Sc. II (Medical)**

**(Single section)**

**Subject- Zoology**

**PAPER II: BIOCHEMISTRY AND PHYSIOLOGY-I (ZOO 302)**

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| **Month** | **Date** | | **Topics to be Covered** | **Academic Activity Undertaken** |
| **From** | **To** |
| September | 14.09.2020 | 30.09.2020 | **Biochemistry and its scope**  **Carbohydrates, proteins:** classifications and functions. | Lecture method, PPT, Google Suite, assignments |
| October | 01.10.2020 | 31.10.2020 | **Lipids and nucleic acids**: their classifications and functions.  **Carbohydrate metabolism:** The Embden Meyerhoff, Parnas pathway (glycolysis), the tricarboxylic acid cycle, the hexose monophosphate shunt, glycogenesis and glycogenolysis**.**  **Enzymes:** Nature, nomenclature, mode of action, their classification, coenzymes and cofactors. | Lecture method, PPT, Google Suite, Online Videos |
| **Departmental Meeting on 1.10.2020 to coordinate and review the monthly completion of syllabus as per lesson plans** | | | | |
| November | 01.11.2020 | 30.11.2020 | **Digestion:** Digestion of dietary constituents, regulation of digestive processes and absorption. extra and intra cellular digestion, enzymatic digestion and symbiotic digestion.  **Revision & Class test** | Lecture method, PPT, Google Suite, assignments |
| **Departmental Meeting on 3.11.2020 to coordinate and review the monthly completion of syllabus as per lesson plans** | | | | |
| December | 01.12.2020 | 24.12.2020 | **Respiration:** Exchange and transport of respiratory gases, Oxygen dissociation curve of haemoglobin, Bohr effect, chloride shift, Haldane effect and control of breathing.  **MST** | Lecture method, PPT, Google Suite, Online videos, Group Discussion |
| **Departmental Meeting on 03.01.2021 to coordinate and review the monthly completion of syllabus as per lesson plans** | | | | |
| January | 01.01.2021 | 31.01.2021 | **Heart**: Origin and regulation of heart beat, cardiac cycle, electrocardiogram, cardiac output, blood pressure and micro-circulation.  **Blood:** Composition and functions of blood and lymph. Function of hemoglobin, blood clotting. Blood groups including Rh. Factor.  **Revision & Class test** | Lecture method, PPT, Google Suite, Online videos |
| February | 01.02.2021 | 10.02.2021 | REVISION |  |
| **Departmental Meeting on 02.02.2021 to coordinate and review the monthly completion of syllabus as per lesson plans** | | | | |

**Lesson Plan**

**Mehr Chand Mahajan DAV College for Women, Sector – 36A, Chandigarh**

**Monthly Teaching Plans- Even Semester (Semester-IV)**

**Session – 2020-21**

**Department- Zoology**

**Name of the Teacher- Ms. Kadambari Pathania**

**Class- B.Sc. II (Medical)**

**(Single section)**

**Subject- Zoology**

**PAPER II: BIOCHEMISTRY AND PHYSIOLOGY-II (ZOO- 402)**

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| --- | --- | --- | --- | --- |
| **Month** | **Date** | | **Topics to be Covered** | **Academic Activity Undertaken** |
| **From** | **To** |
| April | 01.04.2021 | 30.04.2021 | **Lipid metabolism:** B-oxidation of fatty acids, fate of glycerol and gluconeogenesis, interaction of carbohydrates and lipids, lipogenesis in tissues, ketosis.  **Protein metabolism**: Metabolism of amino acids (Oxidative deamination, transamination and decarboxylation), hydrolysis of proteins and Ornithine cycle).  **Excretion:** Structure and types of nephron, urine formation, osmoregulation and counter current mechanism, composition of urine. | Lecture method, PPT, Google Suite, Online videos, assignments  Lecture method, PPT, Google Suite, Online videos |
| **Departmental Meeting to coordinate and review the monthly completion of syllabus as per lesson plans** | | | | |
| May | 01.05.2021 | 31.05.2021 | **Endocrine System:** Structure, hormones and functions of adrenal, hypothalamus, pituitary, pancreas, gonads  **Endocrine System:** Structure, hormones and functions of thyroid, parathyroid, pineal, thymus, hormones of alimentary canal and kidney.    **MST** | Lecture method, PPT, Videos, Group Discussion, oral tests, assignments  Lecture method, PPT, Videos, Group Discussion |
| **Departmental Meeting on to coordinate and review the monthly completion of syllabus as per lesson plans** | | | | |
| June | 01.06.2021 | 30.06.2021 | **Neural Integration:** Structure of neuron, resting membrane potential, origin and propagation of impulse along the axon, synapse and myoneural junction. | Lecture method, PPT, Videos, Group Discussion |
| July | 01.07.2021 | 31.07.2021 | **Muscles:** Ultrastructure, chemical and physiological basis of skeletal muscle contraction.  **Revision and Class test** | Lecture method, PPT, Videos, Group Discussion |
| **Departmental Meeting on to coordinate and review the monthly completion of syllabus as per lesson plans** | | | | |