

Lesson Plan

Mehr Chand Mahajan DAV College for Women, Sector – 36A, Chandigarh
Monthly Teaching Plans- Odd Semester (Semester-III)
Session – 2021-22

Department- Zoology

Name of the Teacher- Ms. Kadambari Pathania (Sec. A and Sec. B)

Class- B.Sc. II (Medical)

Sections- A and B

Subject- Zoology

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

Month	Date		Topics to be Covered	Academic Activity Undertaken
	From	To		
August	17.08.2021	31.08.2021	Biochemistry and its scope Carbohydrates, proteins: classifications and functions.	Lecture method, PPT, Google Suite, assignments
September	01.09.2021	30.09.2021	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 to Coordinate and Review the Monthly completion of Syllabus as per lesson plans on 04.10.2021				
October	01.10.2021	31.10.2021	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 to Coordinate and Review the Monthly completion of Syllabus as per lesson plans on 03.11.2021				
November	01.11.2021	30.11.2021	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, Online videos, Group Discussion
Departmental Meeting to Coordinate and Review the Monthly completion of Syllabus as per lesson plans on 02.12.2021				
December	01.12.2021	24.10.2021	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, Online videos, Group Discussion
Departmental Meeting to Coordinate and Review the Monthly completion of Syllabus as per lesson plans on 17.12.2021				
End semester Examination 17.12.2021 to 27.01.2022				

Lesson Plan

Mehr Chand Mahajan DAV College for Women, Sector – 36A, Chandigarh
Monthly Teaching Plans- Even Semester (Semester-IV)
Session – 2021-22

Department- Zoology

Name of the Teacher- Ms. Kadambari Pathania (Sec. A and Sec. B)

Class- B.Sc. II (Medical)

Sections A and B

Subject- Zoology

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

Month	Date		Topics to be Covered	Academic Activity Undertaken
	From	To		
February	03.02.2022	28.02.2022	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, Online videos, assignments
Departmental Meeting to Coordinate and Review the Monthly completion of Syllabus as per lesson plans on 02.03.2022				
March	01.03.2022	31.03.2022	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, Verbal tests, assignments
Departmental Meeting to Coordinate and Review the Monthly completion of Syllabus as per lesson plans on 01.04.2022				
April	01.04.2022	30.04.2022	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
Departmental Meeting to Coordinate and Review the Monthly completion of Syllabus as per lesson plans on 02.05.2022				
May	01.05.2022	25.05.2022	Muscles: Ultrastructure, chemical and physiological basis of skeletal muscle contraction. Revision and Class test	Lecture method, PPT, Videos, Group Discussion
Departmental Meeting to Coordinate and Review the Monthly completion of Syllabus as per lesson plans on 26.05.2022				
End semester Examination 26.05.2022 to 05.07.2022				