

DEPARTMENT OF BIOCHEMISTRY

LESSON PLAN OF 1st SEMESTER

Batch 2017-18

Wednesday - 8.30am-9.25am

Friday - 10.20am-11.15am

Saturday (1st, 3rd, 5th) - 9.25am-10.20am

Saturday (2nd, 4th) - 8.30am-9.25am

Date	Time	Topic	Learning Objective	Teacher
02/08/17	Wednesday 8.30am- 9.25am	CHEMISTRY OF CARBOHYDRATES	Lecture –I Introduction, Functions of carbohydrates Classification Carbohydrates	Dr. S. A. Shinde
04/08/17	Friday 10.20am -11.15am		Lecture – II Structure and Physical Properties of Monosaccharides	Dr. S. A. Shinde
05/08/17	Saturday 9.25am- 10.20am		Lecture – III Chemical Properties of Monosaccharides Biological Importance of sugar derivative, Disaccharides , Oligosaccharides	Dr. S. A. Shinde
09/08/17	Wednesday 8.30am- 9.25am		Lecture – IV Homopolysaccharides: Examples and Their Importance	Dr. A.D. Deshmukh
11/08/17	Friday 10.20am- 11.15am		Lecture-V Heteropolysaccharides :Examples and Their Importance	Dr. A.D. Deshmukh
12/08/17	Saturday 8.30am- 9.25am	CHEMISTRY OF PROTEINS	Lecture I Biomedical Importance of Proteins, Various Classification of amino acids	Dr.Palshikar
16/08/17	Wednesday 8.30am- 9.25am		Lecture – II Physical & chemical Properties of amino acids	Dr.Palshikar
18/08/17	Friday 10.20am- 11.15am		Lecture – III Peptide bond formation, Biologically important peptides, Various classifications of proteins.	Dr.Palshikar
19/08/17	Saturday 9.25am- 10.20am		Lecture - IV Structural organization of protein – Primary ,Secondary, Tertiary & Quaternary	Dr. Abhijit Pratap
23/08/17	Wednesday 8.30am- 9.25am		Lecture – V Denaturation, Properties of Proteins, Plasma Proteins	Dr. Abhijit Pratap
26/08/17	Saturday 8.30am- 9.25am		Lecture – VI Functions of Plasma Proteins, Acute phase proteins & Immunoglobulins	Dr. Abhijit Pratap

30/08/17	Wednesday 8.30am- 9.25am	TISSUE PROTEINS IN HEALTH AND DISEASE	Lecture-I Collagen and Muscle Proteins, fibronectin, laminin	Dr. R. D. Naoley
01/09/17	Friday 10.20am -11.15am		Lecture-II Elastin, Lens protein, Keratin, prion proteins	Dr. R. D. Naoley
06/09/17	Wednesday 8.30am- 9.25am	CHEMISTRY OF LIPIDS	Lecture – I Biomedical importance & Classification of lipids	Dr. Takale
08/09/17	Friday 10.20am- 11.15am		Lecture – II Chemistry of triacyl glycerol and Phospholipids General Importance of fatty acids	Dr. Takale
09/09/17	Saturday 8.30am- 9.25am		Lecture – III Chemistry of Chemical composition of Lipoproteins, Biological importance/ Classificatio Prostaglandins	Dr. Takale
13/09/17	Wednesday 8.30am- 9.25am		Lecture – IV Chemistry, Biological importance of Cholesterol and other steroids	Dr. Takale
15/09/17	Friday 10.20am -11.15am	ENZYMES	Lecture I General nature of enzymes – Definition, Function Properties , Specification & Classification, coenzymes	Dr. More
16/09/17	Saturday 9.25am- 10.20am		Lecture II Factor affecting enzymes activity, Mechanism of action of enzyme	Dr. More
20/09/17	Wednesday 8.30am- 9.25am		Lecture III Enzymes Inhibition	Dr. Phalak
22/09/17	Friday 10.20am -11.15am		Lecture IV Isoenzymes - Définition, Separation techniques, examples with clinical significance	Dr. Phalak
23/09/17	Saturday 8.30am- 9.25am		Lecture V Clinical enzymology	Dr. Phalak
27/09/17	Wednesday 8.30am- 9.25am	BIOLOGICAL OXIDATION	Lecture I General Concept of oxidation and reduction , Role of enzymes And coenzymes , High energy Compounds	Dr. S. A. Shinde
29/09/17	Friday 10.20am- 11.15am		Lecture II ETC : Enzyme complexes inhibitors, energetics, Substrate level phosphorylation	Dr. S. A. Shinde
04/10/17	Saturday 9.25am- 10.20am		Lecture III Oxidative phosphorylation , Role of Uncouplers And Shuttle System	Dr. S. A. Shinde

06/10/17	Wednesday 8.30am- 9.25am	CARBOHYDRATE METABOLISM	Lecture I Introduction , Digestion and Absorption, Glycolysis	Dr. A.D. Deshmukh
07/10/17	Friday 10.20am- 11.15am		Lecture II Glycolysis, Rapaport Leubering Cycle,	Dr. A.D. Deshmukh
11/10/17	Saturday 8.30am- 9.25am		Lecture III Citric acid Cycle	Dr. A.D. Deshmukh
12/10/17 to 14/10/17		1st CONTINUOUS ASSESSMENT		
16/10/17 to 21/10/17		DIWALI VACATION		
25/10/17	Saturday 8.30am- 9.25am		Lecture IV HMP Shunt, Glycogenesis Metabolism	Dr. A.D. Deshmukh
27/10/17	Wednesday 8.30am- 9.25am		Lecture V Glycogen metabolism & Glycogen Storage Disorders	Dr. M. A. Tilak
28/10/17	Friday 10.20am- 11.15am		Lecture VI Gluconeogenesis,	Dr. M. A. Tilak
01/11/17			Lecture VII Galactose Metabolism, Galactosemia, Uronic Acid Pathway	Dr. M. A. Tilak
03/11/17			Lecture VIII Blood Glucose level Regulation	Dr. M. A. Tilak
06/11/17 to 08/11/17		2nd CONTINUOUS ASSESSMENT		
10/11/17	Friday 10.20am- 11.15am	LIPID METABOLISM	Lecture I Introduction, Digestion and Absorption of Lipids	Dr. Takale
11/11/17	Saturday 8.30am- 9.25am		Lecture II Oxidation of fatty acids	Dr. Takale
15/11/17	Wednesday 8.30am- 9.25am		Lecture III Fatty acid Biosynthesis	Dr. Takale
17/11/17	Friday 10.20am- 11.15am		Lecture IV Adipose tissue metabolism	Dr .V.V. Dhat
18/11/17	Saturday 9.25am- 10.20am		Lecture V Ketosis, fatty liver and Lipotropic factors	Dr .V.V. Dhat

22/11/17	Wednesday 8.30am- 9.25am		Lecture VI Cholesterol biosynthesis, transport and atherosclerosis	Dr .V.V. Dhat
24/11/17	Friday 10.20am- 11.15am	PROTEIN METABOLISM	Lecture I Introduction ,Digestion and absorption	Dr. S. A. Shinde
25/11/17	Saturday 8.30am- 9.25am		Lecture II Nitrogen Balance , Amino Acid Pool And Protein turnover, Catabolism of amino acids Transamination , Deamination	Dr. S. A. Shinde
29/11/17	Wednesday 8.30am- 9.25am		Lecture III Formation and Fates of Ammonia	Dr. S. A. Shinde
02/12/17	Saturday 9.25am- 10.20am		Lecture IV Metabolism of Glycine – General and special functions, Biosynthesis, catabolism and inborn error of Metabolism	Dr. S. A. Shinde
06/12/17	Wednesday 8.30am- 9.25am		Lecture V Metabolism of Phenylalanine and Tyrosine	Dr. U.K. More
08/12/17	Friday 10.20am- 11.15am		Lecture VI Metabolism of Tryptophan - General and special functions, Biosynthesis, Catabolism and inborn error of metabolism	Dr. U.K. More
09/12/17	Saturday 8.30am- 9.25am		Lecture VII Metabolism of Methionine and Cysteine- General and special functions, Biosynthesis, Catabolism and inborn error of metabolism	Dr. U.K. More
13/12/17	Wednesday 8.30am- 9.25am		Free Radicals and Antioxidants	Dr. R. D. Naoley
14/12/17 to 23/12/17			TERMINAL EXAM/	
26/12/17 to 30/12/17			WINTER VACATION	