

COUNCIL OF PARAMEDICAL SCIENCE OF INDIA

SUBJECT : BIOCHEMISTRY SYLLABUS		TOTAL LECTURES = 80		
SR NO	UNIT	SUB - UNIT	LECTURE FOR SUB UNIT	TOTAL LEACTURES
I	INTRODUCTION	<ol style="list-style-type: none"> 1. Terminology, Collection of specimen, Lab glasswares 2. Basic separation techniques 3. Lab mathematics & measurements system 4. Internal & External quality control, Accuracy, Precision, standardization (only definition) 		08
II	CARBOHYDRATES (PHYSIOLOGY & PATHOLOGY)	<ol style="list-style-type: none"> 1. Defination & Classification & function 2. Defination of metabolism , Gluconeogenesis, Glyconeogenesis. 3. Glycolysis cycle in short 4. BSL Regulation factors 5. Hypoglycemia, Glycosuria, Pathology D.M., Ketosis, GTT 		08
III	LIPIDS (PHYSIOLOGY & PATHOLOGY)	<ol style="list-style-type: none"> 1. Defination & Classification & function of Lipids. 2. Metabolism & Oxidation 3. Clinical importance , Tryglyceride, Phospholipids & Cholesterol 4. Diagnostic test for lipoprotein Atherosclerosis 		08
IV	PROTEINS	<ol style="list-style-type: none"> 1. Defination & Classification & function of Proteins & aminoacids 2. Metabolism – Demination, Transamination & urea formation 3. Related path test & clinical importance 		08
V	ELECTROLYTES VITAMINS & MINERALS	<ol style="list-style-type: none"> 1. Introduction & Function of Na, K, Ca, Cl, Ph, Bicarbonate, Fe with their clinical importance. 2. Defination & Classification & function of Vitamins 3. Pathology related Minerals & Vitamins. 		08
VI	ENZYME	<ol style="list-style-type: none"> 1. Defination & Classification. 2. Factors affecting enzyme action & inhibition. 3. Clinical significance of ACT, AST, CK LDH enzyme. Amylase, Co-enzyme 4. Diagnostic importance of enzyme 		08
VII	ENDOCRINE SECRETION	<ol style="list-style-type: none"> 1. Introduction to Hormones & their action 2. Thyroid gland, Parathyroid gland, Adrenal gland & Pitutary gland 		08
VIII		<ol style="list-style-type: none"> 1. LFT 2. RFT 3. PFT 		08