Number	COMPETENCY The student should be able to	Domain K/S/A/C	Level K/KH/S H/P	Core (Y/N)
BI1.1	Describe the molecular and functional organization of a cell and its sub- cellular components.	К	КН	Y
BI2.1	Explain fundamental concepts of enzyme, isoenzyme, alloenzyme, coenzyme & co-factors. Enumerate the main classes of IUBMB nomenclature.	К	КН	Y
BI2.2	Observe the estimation of SGOT & SGPT	K	К	Y
BI2.3	Describe and explain the basic principles of enzyme activity	K	KH	Y
BI2.4	Describe and discuss enzyme inhibitors as poisons and drugs and as therapeutic enzymes	K	КН	Y
BI2.5	Describe and discuss the clinical utility of various serum enzymes as markers of pathological conditions.	К	КН	Y
BI2.6	Discuss use of enzymes in laboratory investigations (Enzyme-based assays)	K	КН	Y
BI2.7	Interpret laboratory results of enzyme activities & describe the clinical utility of various enzymes as markers of pathological conditions.	K	КН	Y
BI3.1	Discuss and differentiate monosaccharides, disaccharides and polysaccharides giving examples of main carbohydrates as energy fuel, structural element and storage in the human body	К	КН	Y
BI3.2	Describe the processes involved in digestion and assimilation of carbohydrates and storage.	K	KH	Υ
BI3.3	Describe and discuss the digestion and assimilation of carbohydrates from food.	K	KH	Y
BI3.4	Define and differentiate the pathways of carbohydrate metabolism, (glycolysis, gluconeogenesis, glycogen metabolism, HMP shunt).	К	КН	Y
BI3.5	Describe and discuss the regulation, functions and integration of carbohydrate along with associated	K	KH	Υ
BI3.6	Describe and discuss the concept of TCA cycle as a amphibolic pathway and its regulation.	K	KH	Y
BI3.7	Describe the common poisons that inhibit crucial enzymes of carbohydrate metabolism (eg; fluoride,	K	KH	Y
BI3.8	Discuss and interpret laboratory results of analytes associated with metabolism of carbohydrates.	К КН		Y
BI3.9	Discuss the mechanism and significance of blood glucose regulation in health and disease.	К	KH	Y
BI3.10	Interpret the results of blood glucose levels and other laboratory investigations related to disorders of	K	KH	Y

BI4.1	Describe and discuss main classes of lipids (Essential/non-essential fatty acids, cholesterol and hormonal steroids, triglycerides, major phospholipids and sphingolipids) relevant to human system and their major functions.	К	КН	Y
BI4.2	Describe the processes involved in digestion and absorption of dietary lipids and also the key features of their metabolism	К	KH	Y
BI4.3	Explain the regulation of lipoprotein metabolism & associated disorders.	К	КН	Υ
BI4.4	Describe the structure and functions of lipoproteins, their functions, interrelations & relations with	K	КН	Υ
BI4.5	Interpret laboratory results of analytes associated with metabolism of lipids	К	KH	Y
BI4.6	Describe the therapeutic uses of prostaglandins and inhibitors of eicosanoid synthesis.	К	KH	Y
BI4.7	Interpret laboratory results of analytes associated with metabolism of lipids.	K	KH	Υ
BI5.1	Describe and discuss structural organization of proteins.	К	КН	Y
BI5.2	Describe and discuss functions of proteins and structure-function relationships in relevant areas eg, hemoglobin and selected hemoglobinopathies	К	KH	Y
BI5.3	Describe the digestion and absorption of dietary proteins.	К	КН	Y
BI5.4	Describe common disorders associated with protein metabolism.	К	КН	Y
BI5.5	Interpret laboratory results of analytes associated with metabolism of proteins.	К	KH	Y
BI6.1	Discuss the metabolic processes that take place in specific organs in the body in the fed and fasting	К	KH	Υ
BI6.2	Describe and discuss the metabolic processes in which nucleotides are involved.	К	KH	Y
BI6.3	Describe the common disorders associated with nucleotide metabolism.	K	KH	Υ
BI6.4	Discuss the laboratory results of analytes associated with gout & Lesch Nyhan syndrome.	К	KH	Y

BI6.5	Describe the biochemical role of vitamins in the body	К	KH	Υ
	and explain the manifestations of their deficiency			
BI6.6	Describe the biochemical processes involved in generation of energy in cells.	К	КН	Y
BI6.7	Describe the processes involved in maintenance of normal pH, water & electrolyte balance of body fluids and the derangements associated with these.	К	KH	Y
BI6.8	Discuss and interpret results of Arterial Blood Gas (ABG) analysis in various disorders.	К	KH	Υ
BI6.9	Describe the functions of various minerals in the body, their metabolism and homeostasis.	К	КН	Y
BI6.10	Enumerate and describe the disorders associated with mineral metabolism.	К	KH	Y
BI6.11	Describe the functions of haem in the body and describe the processes involved in its metabolism and describe porphyrin metabolism.	К	KH	Y
BI6.12	Describe the major types of haemoglobin and its derivatives found in the body and their physiological/pathological relevance.	К	KH	Y
BI6.13	Describe the functions of the kidney, liver, thyroid and adrenal glands.	К	KH	Υ
BI6.14	Describe the tests that are commonly done in clinical practice to assess the functions of these organs (kidney, liver, thyroid and adrenal glands).	К	KH	Y
BI7.1	Describe the structure and functions of DNA and RNA and outline the cell cycle.	К	КН	Y
BI7.2	Describe the processes involved in replication & repair of DNA and the transcription & translation	К	KH	Υ
BI7.3	Describe gene mutations and basic mechanism of regulation of gene expression.	К	KH	Υ
BI7.4	Describe applications of molecular technologies like recombinant DNA technology, PCR in the diagnosis and treatment of diseases with genetic basis.	К	KH	Y
BI7.5	Describe the role of xenobiotics in disease	К	КН	Y
BI7.6	Describe the anti-oxidant defence systems in the body.	К	КН	Υ
BI7.7	Describe the role of oxidative stress in the pathogenesis of conditions such as cancer, complications of diabetes mellitus and	К	KH	Y

BI8.1	Discuss the importance of various dietary components and explain importance of dietary fibre.	K	KH	Y
BI8.2	Describe the types and causes of protein energy malnutrition and its effects.	К	КН	Y
BI8.3	Provide dietary advice for optimal health in childhood and adult, in disease conditions like diabetes mellitus,	K	KH	Υ
BI8.4	Describe the causes (including dietary habits), effects and health risks associated with being overweight/ obesity.	K	КН	Y
BI8.5	Summarize the nutritional importance of commonly used items of food including fruits and vegetables.(macro-molecules & its importance)	К	КН	Y
BI9.1	List the functions and components of the extracellular matrix (ECM).	K	KH	Υ
BI9.2	Discuss the involvement of ECM components in health and disease.	K	KH	Υ
BI9.3	Describe protein targeting & sorting along with its associated disorders.	K	KH	N
BI10.1	Describe the cancer initiation, promotion oncogenes & oncogene activation. Also focus on p53 & apoptosis	К	КН	Y
BI10.2	Describe various biochemical tumor markers and the biochemical basis of cancer therapy.	К	KH	Y
BI10.3	Describe the cellular and humoral components of the immune system & describe the types and structure of antibody	К	KH	Y
BI10.4	Describe & discuss innate and adaptive immune responses, self/non-self recognition and the central role of T-helper cells in immune responses.	К	KH	Y
BI10.5	Describe antigens and concepts involved in vaccine development.	K	KH	Y
BI11.1	Describe commonly used laboratory apparatus and equipments, good safe laboratory practice and waste	K	KH	Υ
BI11.2	Describe the preparation of buffers and estimation of pH.	K	KH	Υ

BI11.3	Describe the chemical components of normal urine.	K	KH	Υ
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BI11.4	Perform urine analysis to estimate and determine normal and abnormal constituents	S	Р	Y
BI11.5	Describe screening of urine for inborn errors & describe the use of paper chromatography	K	KH	Y
BI11.6	Describe the principles of colorimetry	K	KH	Y
BI11.7	Demonstrate the estimation of serum creatinine and creatinine clearance	S	Р	Y
BI11.8	Demonstrate estimation of serum proteins, albumin and A:G ratio	S	Р	Y
BI11.9	Demonstrate the estimation of serum total cholesterol and HDL- cholesterol	S	Р	Y
BI11.10	Demonstrate the estimation of triglycerides	S	Р	Y
BI11.11	Demonstrate estimation of calcium and phosphorous	S	Р	Y
BI11.12	Demonstrate the estimation of serum bilirubin	S	Р	Y
BI11.13	Demonstrate the estimation of SGOT/ SGPT	S	Р	Y
BI11.14	Demonstrate the estimation of alkaline phosphatase	S	Р	Y
BI11.15	Describe & discuss the composition of CSF	K	KH	Y
BI11.16	Observe use of commonly used equipments/techniques in biochemistry laboratory including: •pH meter •Paper chromatography of amino acid •Protein electrophoresis •TLC, PAGE	S	КН	Y
BI11.17	Explain the basis and rationale of biochemical tests done in the following conditions: - diabetes mellitus, - dyslipidemia, - myocardial infarction, - renal failure, gout, - proteinuria, - nephrotic syndrome, - edema,	К	КН	Y
BI11.18	Discuss the principles of spectrophotometry.	K	KH	Υ
BI11.19	Outline the basic principles involved in the functioning of instruments commonly used in a biochemistry laboratory and their applications.	К	КН	Y
BI11.20	Identify abnormal constituents in urine, interpret the findings and correlate these with pathological states.	S	SH	Y
BI11.21	Demonstrate estimation of glucose, creatinine, urea and total protein in serum.	S	SH	Y

BI11.22	Calculate albumin: globulin (AG) ratio and creatinine clearance	K	KH	Υ
BI11.23	Calculate energy content of different food Items, identify food items with high and low glycemic index	K	KH	Υ
BI11.24	Enumerate advantages and/or disadvantages of use of unsaturated, saturated and trans fats in food.	K	KH	Υ

Teaching Learning method	Suggested	Suggested	Number	Vertical	Horizontal
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group discussion	10000	y, General	
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		Surgery,	
		Pathology	
Lecture, Small	Written/ Viva	Obstetrics &	
group discussion	voce	Gynaecolog	
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		Surgery,	
		Pathology	
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Lecture, Small	Written/ Viva	General	Physiology
group discussion	voce	Medicine,	
		Pathology	
Lecture, Small	Written/ Viva	Pathology,	
group discussion	voce	Pediatrics,	
		Microbiology	
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Lecture, Small	Written/ Viva		
group discussion	voce		
Lecture, Small	Written/ Viva		
group discussion			
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group discussion	voce			
DOAP session	Skill	1	General	Physiology
DOAP Session	assessment	ı	Medicine	Physiology
Lecture, Small	Written/ Viva		General	
group discussion	voce		Medicine	
Lecture, Small	Written/ Viva		Wiedleine	
group discussion	voce			
Practical	Skills	1		_
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Lecture, Small	Written/ Viva			
group discussion	voce			
Demonstration	Skill assessment			
Lecture, Small group discussion	Written/ Viva voce		General Medicine, Pathology	
Lecture, Small group discussion	Written/ Viva			
Lecture, Small group discussion	Written/ Viva voce			
DOAP sessions	Skill assessment	1		
DOAP sessions	Skill assessment	1		

Lecture, Small	Written/ Viva	General
group discussion	voce	Medicine
Lecture, Small	Written/ Viva	General
group discussion	voce	Medicine
Lecture, Small	Written/ Viva	General
group discussion	voce	Medicine