

OM SAKTHI
MELMARUVATHUR ADHIPARASAKTHI INSTITUTE OF MEDICAL SCIENCES & RESEARCH
DEPARTMENT OF BIOCHEMISTRY
1ST MBBS-2016-2017 BATCH OF PRACTICAL & TUTORIAL TEACHING SCHEDULE FOR
MONTH OF JUN-2017

PRACTICAL & TUTORIAL TOTAL TEACHING HOURS : 32 HOURS			
TIME : 1.30 TO 3.30 PM			
S.NO.	DATE & DAY	NAME OF THE TOPICS	TEACHING FACULTIES
1.	1.06.2017 Thursday	PRACTICAL - UNKNOWN SAMPLE ESTIMATION OF BIOCHEMICAL ANALYTE (PROTEIN) IN BLOOD - BIURET METHOD	MR.K.P.SHIVA GOVINDAN / DR.S. SLEEM BASH/ DR.NHB,DR.MSK, DR.SSS
		TUTORIAL: CHART WORK - REPLICATION, TRANSCRIPTION, TRANSLATION.	DR.D.SULTA SHERIFF / DR.S.SAKTHIDASAN
2.	5.06.2017 Monday	PRACTICAL - UNKNOWN SAMPLE ESTIMATION OF BIOCHEMICAL ANALYTE (URIC ACID) IN BLOOD - CARAWAY METHOD	DR.S.SALEEM SALEEM / DR.K. GUNANITHI DR.NHB,DR.MSK, DR.SSS
		TUTORIAL : MOLECULAR BIOLOGY TECHNIQUES	DR.D.SULTA SHERIFF / DR.S.SAKTHIDASAN
3.	6.06.2017 Tuesday	PRACTICAL - UNKNOWN SAMPLE ESTIMATION OF BIOCHEMICAL ANALYTE (URIC ACID) IN BLOOD - CARAWAY METHOD	DR.S.SALEEM SALEEM / DR.K. GUNANITHI DR.NHB,DR.MSK, DR.SSS
		TUTORIAL : MOLECULAR BIOLOGY TECHNIQUES	DR.D.SULTA SHERIFF / DR.S.SAKTHIDASAN
4.	7.06.2017 Wednesday	PRACTICAL - UNKNOWN SAMPLE ESTIMATION OF BIOCHEMICAL ANALYTE (URIC ACID) IN BLOOD - CARAWAY METHOD	DR.S.SALEEM SALEEM / DR.K. GUNANITHI DR.NHB,DR.MSK, DR.SSS
		TUTORIAL : MOLECULAR BIOLOGY TECHNIQUES	DR.D.SULTA SHERIFF / DR.S.SAKTHIDASAN
5.	8.06.2017 Thursday	PRACTICAL - UNKNOWN SAMPLE ESTIMATION OF BIOCHEMICAL ANALYTE (URIC ACID) IN BLOOD - CARAWAY METHOD	DR.S.SALEEM SALEEM / DR.K. GUNANITHI DR.NHB,DR.MSK, DR.SSS
		TUTORIAL : MOLECULAR BIOLOGY TECHNIQUES	DR.D.SULTA SHERIFF / DR.S.SAKTHIDASAN
6.	12.06.2017 Monday	PRACTICAL: REVISION - ABNORMAL CONSTITUENTS OF URINE	MR.K.P.SHIVA GOVINDAN / DR.S. SALEEM BASHA DR.NHB,DR.MSK, DR.SSS
7.		TUTORIAL : XENOBIOTICS	DR.S.SAKTHI DASAN / DR.D.SULTAN SHERIFF
8.	13.06.2017 Tuesday	REVISION - ABNORMAL CONSTITUENTS OF URINE	MR.K.P.SHIVA GOVINDAN / DR.S. SALEEM BASHA DR.NHB,DR.MSK, DR.SSS

9.		TUTORIAL : XENOBIOTICS	DR.S.SAKTHI DASAN / DR.D.SULTAN SHERIFF
10.	14.06.2017 Wednesday	REVISION - ABNORMAL CONSTITUENTS OF URINE	MR.K.P.SHIVA GOVINDAN / DR.S. SALEEM BASHA DR.NHB,DR.MSK, DR.SSS
11.		TUTORIAL : XENOBIOTICS	DR.S.SAKTHI DASAN / DR.D.SULTAN SHERIFF
12.	15.06.2017 Thursday	REVISION - ABNORMAL CONSTITUENTS OF URINE	MR.K.P.SHIVA GOVINDAN / DR.S. SALEEM BASHA DR.NHB,DR.MSK, DR.SSS
13.		TUTORIAL : XENOBIOTICS	DR.S.SAKTHI DASAN / DR.D.SULTAN SHERIFF
14.	19.06.2017 Monday	REVISION - CLINICAL SCENARIO BASED QUANTITATIVE ESTIMATION OF RELEVANT ANALYTES	DR.K.GUNANITHI / MR.K.P.SHIVA GOVINDAN DR.NHB,DR.MSK, DR.SSS
15.		TUTORIAL : NUTRITION	DR.S. SAKTHIDASAN / DR.D. SULTAN SHERIFF
16.	20.06.2017 Tuesday	REVISION - CLINICAL SCENARIO BASED QUANTITATIVE ESTIMATION OF RELEVANT ANALYTES	DR.K.GUNANITHI / MR.K.P.SHIVA GOVINDAN DR.NHB,DR.MSK, DR.SSS
17.		TUTORIAL : NUTRITION	DR.SAKTHIDASAN / DR.SHERIFF
18.	21.06.2017 Wednesday	REVISION - CLINICAL SCENARIO BASED QUANTITATIVE ESTIMATION OF RELEVANT ANALYTES	DR.K.GUNANITHI / MR.K.P.SHIVA GOVINDAN DR.NHB,DR.MSK, DR.SSS
19.		TUTORIAL : NUTRITION	DR.S. SAKTHIDASAN / DR.D. SULTAN SHERIFF
20.	22.06.2017 Thursday	PRACTICAL: REVISION - CLINICAL SCENARIO BASED QUANTITATIVE ESTIMATION OF RELEVANT ANALYTES	DR.K.GUNANITHI / MR.K.P.SHIVA GOVINDAN DR.NHB,DR.MSK, DR.SSS
21.		TUTORIAL : NUTRITION	DR.S. SAKTHIDASAN / DR.D. SULTAN SHERIFF
22.	26.06.2017 Monday	RAMZAN HOLIDAY	
23.	27.06.2017 Tuesday	PRACTICAL: OSPE & CLINICAL CHARTS DISCUSSION	DR.S.SALEEM BHASHA / DR.K.GUNANITHI DR.NHB,DR.MSK, DR.SSS
24.		TUTORIAL : OXIDATIVE STRESS	DR.S. SAKTHIDASAN / DR.D. SULTAN SHERIFF
25.	28.06.2017 Wednesday	PRACTICAL: OSPE & CLINICAL CHARTS DISCUSSION	DR.S.SALEEM BHASHA / DR.K.GUNANITHI DR.NHB,DR.MSK, DR.SSS

26.		TUTORIAL : OXIDATIVE STRESS	DR.S. SAKTHIDASAN / DR.D. SULTAN SHERIFF
27.	29.06.2017 Thursday	PRACTICAL: OSPE & CLINICAL CHARTS DISCUSSION	DR.S.SALEEM BHASHA / DR.K.GUNANITHI DR.NHB,DR.MSK, DR.SSS
28.		TUTORIAL : OXIDATIVE STRESS	DR.S. SAKTHIDASAN / DR.D. SULTAN SHERIFF

ALL TEACHING FACULTIES

- | | |
|---------------------------|-----------|
| 1. Dr.D.Sultan Sheriff | Dr.DSS |
| 2. Dr.S.Sakthi Dasan | Dr.SSD |
| 3. Dr.K.Gunanlthi | Dr.k.Guna |
| 4. Dr.S.Saleem Basha | Dr.SSB |
| 5. Mr.K.P.Shiva Govindan | Mr.KPS |
| 6. Dr.N.Hari Babu | Dr.NHB |
| 7. Dr.M.Saravana kumar | Dr.MSK |
| 8. Dr.S.S.Sakthi Gnanavel | Dr.SSS |

S. Sakthi Dasan
Dr.S.Sakthi Dasan
 In charge
 Head of Biochemistry Dept.

OM SAKTHI
MELMARUVATHUR ADHIPARASAKTHI INSTITUTE OF MEDICAL SCIENCE & RESEARCH
DEPARTMENT OF BIOCHEMISTRY
1ST MBBS-2016-2017 BATCH OF THEORY TEACHING SCHEDULE

MONTH: JUNE- 2017
TOTAL HOURS: 21 HOURS

SPECIFIC LEARNING OBJECTIVES FOR STUDENTS

S.NO.	DATE, DAY & TIME	TOPICS	MUST KNOW	DESIRABLE TO KNOW	NICE TO KNOW
1.	1.06.2017 Thursday 9.30AM-10.30AM	GIVEN TO ANATOMY			
2.	2.06.2017 Friday 9.30AM-10.30AM				
3.	3.06.2017 Saturday	FIRST SATURDAY HOLIDAY			
4.	5.06.2017 Monday 3.30PM-4.30PM	METABOLISM OF XENOBIOTICS LECTURER:- DR.D.SULTAN SHEIRFF	Xenobiotic- definition and examples Biochemical importance of the two phases of xenobiotic metabolism Conjugation reactions: • Biochemical role of conjugation reactions (with suitable, clinically relevant examples) - glucuronidation, sulfation, conjugation with Glutathione, acetylation.	The cytochrome P450 enzyme system • Functions • Properties (especially induction by drugs) Overview of Metabolism of alcohol. Health hazards associated with alcohol Consumption. Metabolic alterations induced by alcohol Metabolism.	
5.	6.06.2017 Tuesday 8.30AM-9.30AM	METABOLISM OF XENOBIOTICS LECTURER:- DR.D.SULTAN SHEIRFF			
6.	08.06.2017 Thursday 9.30AM-10.30AM	OXIDATIVE STRESS LECTURER:- DR.SAKTHIDASAN		Concepts of reactive oxygen species (ROS), free radicals and oxidative stress and Antioxidants. Mechanisms of generation of reactive oxygen	

				Species (ROS) in cells. Role of antioxidants Vitamin E and Glutathione. Role of antioxidant enzymes – glutathione peroxidase, superoxide dismutase	
7.	09.06.2017 Friday 9.30AM- 10.30AM	NUTRITION LECTURER:- DR.SAKTHIDASAN	Importance of various macro and micro-nutrients in diet. Components and importance of each type in diet. Concept of balanced diet and glycemic index of food. Importance of dietary fibre. Basal metabolic rate. Specific dynamic action (thermogenic effect of food) and respiratory quotient Common sources of saturated, polyunsaturated and monounsaturated fats in diet and their impact on health. Importance of trans fats Concept of limiting amino acids and supplementary action of dietary proteins. Protein-energy malnutrition (PEM): marasmus and kwashiorkor - causes and main differences.	Calorific value of various Macronutrients. Principles of calculation of energy requirements of a Person.	Dietary protein quality – biological value and net protein Utilization. Concept of nitrogen Balance.
8.	10.06.2017 Saturday 8.30AM- 9.30AM	NUTRITION LECTURER:- DR.SAKTHIDASAN	Protein-energy malnutrition (PEM): marasmus and kwashiorkor - causes and main differences.		
9.	12.06.2017 Monday 3.30PM- 4.30PM	NUTRITION LECTURER:- DR.SAKTHIDASAN	Obesity (including calculation and interpretation of body mass index [BMI]; health risks associated with obesity)		
10.	13.06.2017 Tuesday 8.30AM- 9.30AM	IMPORTANCE OF LABORATORY MEDICINE LECTURER:- DR.SAKTHIDASAN		Ensuring quality and integrity of laboratory services, role and responsibilities when participating in clinical research, optimal use of resources, confidentiality of laboratory results, use of results from screening and testing programs, etc.	

11.	15.06.2017 Thursday 9.30AM- 10.30AM	ETHICAL ISSUES IN LABORATORY MEDICINE LECTURER:- DR.D.SHERIFF SHERIFF	The concept that laboratory testing should respect principles of medical ethics (nonmaleficence, beneficence, patient autonomy, informed consent, respect for patient, etc)		
12.	16.06.2017 Friday 9.30AM- 10.30AM	CHARTS DISCUSSION			
		LECTURER:- DR.D.SULTAN SHERIFF			
13.	17.06.2017 Saturday 8.30AM- 9.30AM	FLUID AND ELECTROLYTE BALANCE LECTURER:- DR.K.GUNANITHI	Distribution of water in various body compartments. Intra- and extracellular fluid composition (sodium and potassium) Blood volume and osmolality. Major causes and clinical features of dehydration. Sodium: Normal levels in the blood. Physiological functions. Regulation of sodium homeostasis (including the role of renin-angiotensin-aldosterone system). Major causes, clinical features of hyponatremia and hypernatremia Potassium: Normal levels in the blood. Physiological functions. Regulation of potassium homeostasis. Major causes and clinical features of hypokalemia and hyperkalemia.	Regulation of osmolality– role of anti-diuretic hormone (ADH).	
14.	19.06.2017 Monday 3.30PM- 4.30PM	INSTRUCTIONS ON APPROACH TO UNIVERSITY THEORY EXAMINATIONS Unit I - Cell and chemistry carbohydrates, Lipids and proteins			
		LECTURER:- DR.S. SAKTHIDASAN			

15.	20.06.2017 Tuesday 8.30AM- 9.30AM	INSTRUCTIONS ON APPROACH TO UNIVERSITY THEORY EXAMINATIONS Unit II- Enzymes and vitamins LECTURER:- DR.S.SALEEM BHASHA
16.	22.06.2017 Thursday 9.30AM- 10.30AM	INSTRUCTIONS ON APPROACH TO UNIVERSITY THEORY EXAMINATIONS Unit III - Metabolism of carbohydrates and biological oxidation and electron transport chain LECTURER:- DR.D. SULTAN SHERIFF
17.	23.06.2017 Friday 9.30AM- 10.30AM	INSTRUCTIONS ON APPROACH TO UNIVERSITY THEORY EXAMINATIONS Unit IV- Metabolism of lipids. LECTURER:- DR.K.GUNANITHI
18.	24.06.2017 Saturday 8.30AM- 9.30AM	INSTRUCTIONS ON APPROACH TO UNIVERSITY THEORY EXAMINATIONS Unit V - Metabolism of proteins and metabolism of heme LECTURER:- DR.S.SALEEM BHASHA
19.	26.06.2017 Monday	RAMZAN HOLIDAY
20.	27.06.2017 Tuesday 8.30AM- 9.30AM	INSTRUCTIONS ON APPROACH TO UNIVERSITY THEORY EXAMINATIONS Unit VI - Organ function tests, acid–base homeostasis and associated disorders, water and electrolyte balance and associated. LECTURER:- DR.K.GUNANITHI
21.	29.06.2017 Thursday 9.30AM- 10.30AM	INSTRUCTIONS ON APPROACH TO UNIVERSITY THEORY EXAMINATIONS Unit VII - Nutrition, minerals and metabolism of xenobiotics LECTURER:- DR.S.SAKTHIDASAN
22.	30.06.2017 Friday 9.30AM- 10.30AM	INSTRUCTIONS ON APPROACH TO UNIVERSITY THEORY EXAMINATIONS Unit VIII - Chemistry and metabolism of nucleotides and molecular biology LECTURER:- DR.D.SULTAN SHEIRFF
23.	1ST WEEK JULY	MODEL EXAMINATIONS

1st MBBS- Lecturer Staff

1. Dr.D.Sultan Sheriff – Dr.DSS
2. Dr.S.Sakthi Dasan - Dr.SSD
3. Dr.K.Gunanithi --Dr.K.Guna
4. Dr.S.Saleem Basha -Dr.SSB

S. Sakthi Dasan

Dr.S.Sakthi Dasan

In charge

Head of Biochemistry Dept.