

NORTH BENGAL MEDICAL COLLEGE

ACADEMIC CALENDER OF BIOCHEMISTRY

For the students of 21th Batch, Session: 2019-2020

(From the 1st January/2020 to 30th June/2021)

Marks distribution for Biochemistry

Written Marks: Total-200, Paper -I: 100 marks and Paper-II: 100 marks
(Each paper contains MCQ-20 marks, SAQ-70 marks and Formative assessment-10 marks)

Practical Marks: OSPE: 50 marks, Traditional: 40 marks, Note book: 10 marks, Total: 100 marks

Viva/ Oral Marks: Total: 100 marks

Pass marks 60% (separately in written, practical and viva Examinations)

1st Professional MBBS examination will be held at 1st week of May/2020 and 1st week of November/2020.

FIRST TERM

Duration: January/2019----- May/2019

(1) Lecture and Review:(38 hours)

- (a) Introduction to Biochemistry----- 01 hour
- (b) Concept of solutions ----- 02 hours
- (c) Colloids and crystalloid----- 02 hours
- (d) Concept of pH and buffer----- 02 hours
- (e) Concept of isotope----- 01 hour
- (f) Concept of Biomolecules----- 10 hours
- (g) Enzymes ----- 02 hours
- (h) Concept of Food, nutrition----- 02 hours
- (i) Common Nutritional disorders -07 hours
- (j) Vitamins & minerals ----- 09 hours

(2) Tutorial/ Review:(25 hours)

- (a) Biophysics & Biomolecules -----15 hours
- (b) Food, nutrition, vitamins, minerals---10 hours

(3) Card completion examinations:

- (a) Biophysics & Biomolecules -----06 hours
- (b) Food, nutrition, vitamins, mineral--- 06 hours

(4) Practical for term- I----- -30 hours

#) Biophysics & Biomolecules completion Examination will be held at 4th week of February/2020.

Food, nutrition, vitamins, minerals card completion Examination will be held at 2nd week of April/2020.

#1st Term Final Examination will be held at 1st and 2nd week of May/2020.

SECOND TERM

Duration: May/2020-----October/2020

(1) Lecture and Review:(50 hours)

- (a) Introduction to metabolism ----- 01 hour
- (b) Bioenergetics& Biological oxidation----- 02 hours
- (c) Phases of metabolism-----01 hour
- (d) Glycolysis, TCA cycle-----02 hours
- (e) Gluconeogenesis, glycogenesis -----02 hours
- (f) HMP shunt, Cori cycle ----- 02 hours
- (g) Digestion & absorption of lipid -----02 hours
- (h) Blood lipids & pathways of lipid metabolism -02 hours
- (i) TG metabolism -----02 hours
- (j) Ketogenesis & ketosis -----02 hours
- (k) Lipid transport & lipoprotein metabolism ---02 hours
- (l) Eicosanoids -----02 hours
- (m) Digestion & absorption of protein -----02 hours
- (n) Protein turn over amino acid pool ----- -01 hour
- (o) Pathways of protein metabolism ----- 02 hours
- (p) Transamination. deamination -----02 hours
- (q) Fate of amino acid in the body -----01 hour
- (r) Total body water & body fluid compartments-02 hours
- (s) Composition of body fluids-----01 hour
- (t) Renal Regulation of body water-----02 hours
- (u) Electrolyte balance-----02 hours
- (v) Volume disorders-----05 hours
- (w) Acid base disorders-----08 hours

(2) Tutorial/Review:(30hours)

- (a) Metabolism card-----18 hours
- (b) Renal & acid base balance card-----12 hours

(3) Practical for term II-----45 hours

(5) Card Completion Examinations:

- (a) Metabolism card-----06 hours
- (b) Renal card-----06 hours

The Metabolism card completion examination will be held at 3rd week of August/2020.

The Renal card completion examination will be held at the end of 1st week of October/2020.

The 2nd Term Final Examination will be held at 3rd and 4th week of October/ 2020.

THIRD TERM

Duration: November/2020----- February/2021

(1) Lecture and Review: (32hours)

- (a) Introduction to clinical biochemistry -01 hour
- (b) Normal biochemical values -----01 hour
- (c) Clinical enzymology ----- 02 hours
- (d) Lipid profile ----- 01 hour
- (e) Organ function tests----- 05 hours
- (f) Bilirubin metabolism----- 02 hours
- (g) Proteinuria----- 02 hours
- (h) Concepts of molecular biology----- 02 hours
- (i) Nucleic acid, nucleoside, nucleotide---02 hours
- (j) Replication,transcription,translation-08 hours
- (k) Gene, genome, mutation-----03 hours
- (l) PCR,DNA cloning,-----01 hour
- (m) DNA finger print-----01 hour
- (n) Application of biotechnology-----01 hour

(2) Tutorial/ Review :(45 hours)

- (a) Renal card-----15 hours
- (b) Genetics card -----30 hours

(4) Practical for term-III -----25 hours

(5) Card Completion Examination:

- (a) Renal card-----06 hours
- (b) Genetics card-----06 hours

The Renal card completion examination will be held at 2nd week of January/2021.

The Genetics card completion examination will be held at 3rd week of February/ 2021.

The 3rd Term Final examination will be held at 4th week of February/ 2021.

GENERAL CONSIDERATIONS

1. Every medical student respects their professions and should pray to the Creator for their departed souls for eternal peace.
2. Every student must wear apron and shoes during class time.
3. Every student must be well prepared for each class with the appropriate equipments.

Teaching staff of the Department of Biochemistry

1. Professor Dr. Chaklader Md. Kamal Jinnah..... Professor and Head of the Department
2. Dr .Rupali Dev Nath.....Associate Professor
3. Dr. Md Abdul Malek.....Assistant Professor
4. Dr. Zaffrin AkhterLecturer
5. Dr. Mostafizur Rahman Lecturer
6. Dr. Umme HonneyLecturer
7. Dr. Ashifa AshrafiLecturer

1st Term

Duration: Duration: January/2020----- May/2020

1st Term Final Exam 1st and 2nd week of May/2020

Details of Lecture and Details of Classes of small group teaching

Class no	Date	Topic (Lecture)	Class no	Type of class (Tutorial & practical)	Topic
	10.01.2020 - 11.01.2020	Inaugural session and Weekly Holiday			
	12.01.2020 Sunday				
01	13.01.2020 Monday	Introduction to Biochemistry Concept of acid, base, alkali and salt	01	Practical	Identification of laboratory glass wares and equipment-1
02	14.01.2020 Tuesday	pH, pK	01	Tutorial	Introduction to Biochemistry acid, base, alkali and salt
03	15.01.2020 Wednesday	Concept of buffer.	02	Practical	Identification of laboratory glass wares and equipment-2
04	16.01.2020 Thursday	Henderson-Hasselbalch equation			
	17.01.2020 Friday		02	Tutorial	pH, pK, buffer, Henderson-Hasselbalch equation
	18.01.2020 Saturday	Weekly Holiday			
	19.01.2020 Sunday				
05	20.01.2020 Monday	Concept of solutions		Formative examination	<u>Card-1,Item-1 Exam:</u> Introduction, acid, base, pH, pK, buffer, Henderson-Hasselbalch equation
06	21.01.2020 Tuesday	Crystalloid & colloid	03	Practical	Identification of laboratory glass wares and equipment-3
07	22.01.2020 Wednesday	Dialysis	03	Tutorial	Solutions, Crystalloid, colloid, Dialysis
08	23.01.2020 Thursday	Isotopes			
	24.01.2020 Friday		04	Practical	Identification of laboratory glass wares and equipment-4
	25.01.2020 Saturday	Weekly Holiday			
	26.01.2020 Sunday				
09	27.01.2020 Monday	Carbohydrate: Definition, classification & properties		Formative examination	<u>Card-1,Item-2 Exam:</u> Solutions, crystalloid, colloid, dialysis and isotopes
10	28.01.2020 Tuesday	Carbohydrate : monosaccharide & disaccharides	05	Practical	Identification of laboratory glass wares and equipment: Item examination
11	29.01.2020 Wednesday	Carbohydrate: Homopolysaccharides	04	Tutorial	Concept of carbohydrate
12	30.01.2020 Thursday	Carbohydrate: Heteropolysaccharides			
	31.01.2020 Friday		06	Practical	Preparation of solutions:1

Class no	Date	Topic (Lecture)	Class no	Type of class (Tutorial & practical)	Topic
	01.02.2020 Saturday	Weekly Holiday			
	02.02.2020 Sunday				
13	03.02.2020 Monday	Lipids: Definition, classification & properties		Formative examination	<u>Card-1,Item-3 Exam</u> :: Carbohydrate
14	04.02.2020 Tuesday	Lipids : Simple lipid	07	Practical	Preparation of solutions:2
15	05.02.2020 Wednesday	Complex lipid	05	Tutorial	Concept of lipids
16	06.02.2020 Thursday	Derived lipid			
	07.02.2020 Friday		08	Practical	Preparation of solutions:3
	08.02.2020 Saturday	Weekly Holiday			
	09.02.2020 Sunday				
17	10.02.2020 Monday	Concept of amino acid		Formative examination	<u>Card-1,Item-4 Exam</u> : Lipids
18	11.02.2020 Tuesday	Protein :Definition, classification	09	Practical	Preparation of solutions: Item examination
19	12.02.2020 Wednesday	Protein : function & properties	06	Tutorial	Concept of amino acid and protein
20	13.02.2020 Thursday	Protein : structure			
	14.02.2020 Friday		10	Practical	Abnormal constituents of urine and their clinical significance:1
	15.02.2020 Saturday	Weekly Holiday			
	16.02.2020 Sunday				
21	17.02.2020 Monday	Enzymes :Definition, classification & properties		Formative examination	<u>Card-1,Item-5 Exam</u> : Amino acid and protein
22	18.02.2020 Tuesday	Enzymes :Factors affecting & Enzyme inhibition	11	Practical	Abnormal constituents of urine and their clinical significance:2
23	19.02.2020 Wednesday	Coenzymes, cofactors,	07	Tutorial	Enzymes, coenzymes, cofactors
24	20.02.2020 Thursday	Isoenzyme			
	21.02.2020 Friday	International mother language day			
	22.02.2020 Saturday	Weekly Holiday			

Class no	Date	Topic (Lecture)	Class no	Type of class (Tutorial & practical)	Topic
	23.02.2020 Sunday				
	24.02.2020 Monday			Formative examination	Card-1,Item-6 Exam: Enzymes, coenzymes, cofactors, Isoenzyme
	25.02.2020 Tuesday			Summative examination	1st card final examination (Written)
	26.02.2020 Wednesday	Preparatory leave for card final examination			
	27.02.2020 Thursday			Summative examination	1st card final examination (Written)
	28.02.2020 Friday	Preparatory leave for card final examination			
	29.02.2020 Saturday	Weekly Holiday			
	01.03.2020 Sunday	Summative examination : 1st card final exam (Written)			
	02.03.2020 Monday			Summative examination	1 st card final examination (Viva)
	03.03.2020 Tuesday			Summative examination	1 st card final examination (Viva)
	04.03.2020 Wednesday			Summative examination	1 st card final examination (Viva)
	05.03.2020 Thursday		01	Seminal	Seminar for Card-1
	06.03.2020 Friday		12	Practical	Abnormal constituents of urine:3
	07.03.2020 Saturday	Weekly Holiday			
	08.03.2020 Sunday				
25	09.03.2020 Monday	Basic concepts of Nutrient food, diet, balanced diet	08	Tutorial	Nutrient, food, diet,
26	10.03.2020 Tuesday	Calorie calculation, RMR	13	Practical	Abnormal constituents of urine: Examination
27	11.03.2020 Wednesday	SDA, BMI, RQ	09	Tutorial	Calorie calculation,RMR SDA, BMI, RQDRI, RDA
28	12.03.2020 Thursday	DRI, RDA			
	13.03.2020 Friday		14	Practical	Photometry:1
	14.03.2020 Saturday	Weekly Holiday			
	15.03.2020 Sunday				
29	16.03.2020 Monday	Nutritional importance of carbohydrate		Formative examination	Card-2,Item-1 Exam: Nutrient, food, diet,
	17.03.2020 Tuesday	National Child Day			
30	18.03.2020 Wednesday	Nutritional importance of lipid	10	Tutorial	Nutritional importance of CHO & lipid

Class no	Date	Topic (Lecture)	Class no	Type of class (Tutorial & practical)	Topic
31	19.03.2020 Thursday	Nutritional importance of Protein			
	20.03.2020 Friday		15	Practical	Photometry:2
	21.03.2020 Saturday	Weekly Holiday			
	22.03.2020 Sunday				
32	23.03.2020 Monday	Vitamins :Definition, classification		Formative examination	<u>Card-2,Item-2 Exam</u> :: Nutritional importance of CHO, lipid & protein
33	24.03.2020 Tuesday	Vitamin A	16	Practical	Photometry:3
34	25.03.2020 Wednesday	Vitamin D, Vitamin E &Vitamin K	11	Tutorial	Fat soluble vitamins-discussion
	26.03.2020 Thursday	National Independence Day			
	27.03.2020 Friday		17	Practical	Photometry:4
	28.03.2020 Saturday	Weekly Holiday			
	29.03.2020 Sunday				
35	30.03.2020 Monday	Vitamin B1, B2		Formative examination	<u>Card-2, Item-3 Exam</u> : Fat soluble vitamins
36	31.03.2020 Tuesday	Vitamin B3, B5, B6	18	Practical	Photometry: Item examination
37	01.04.2020 Wednesday	Vitamin B12, folic acid	12	Tutorial	Vitamin B1- B6
38	02.04.2020 Thursday	Vitamin C			
	03.04.2020 Friday		19	Practical	Estimation of Blood glucose-2
	04.04.2020 Saturday	Weekly Holiday			
	05.04.2020 Sunday				
39	06.04.2020 Monday	Minerals :Definition, classification & properties		Formative examination	<u>Card-2, Item-4 Exam</u> . Water soluble vitamins
40	07.04.2020 Tuesday	Macro minerals	20	Practical	Estimation of Blood glucose-1
41	08.04.2020 Wednesday	Micro minerals , Nutritional disorders	13	Tutorial	Minerals & nutritional disorders discussion
	09.04.2020 Thursday	Sob-e-borate			
	10.04.2020 Friday			Formative examination	<u>Card-1,Item-5 Exam</u> :: Minerals & nutritional disorders
	11.04.2020 Saturday	Weekly Holiday			
	12.04.2020 Sunday	Preparatory leave for card final examination			

Class no	Date	Topic (Lecture)	Class no	(Tutorial & practical)	Topic
	13.04.2020 Monday	Summative examination : 2 nd card final exam (Written)			
	14.04.2020 Tuesday	Bangla New Year			
	15.04.2020 Wednesday	Summative examination : 2 nd card final exam (Written)			
	16.04.2020 Thursday	Preparatory leave for card final examination			
	17.04.2020 Friday	Summative examination : 2 nd card final exam (Written)			
	18.04.2020 Saturday	Weekly Holiday			
	19.04.2020 Sunday	Summative examination : 2 nd card final examination (Viva)			
	20.04.2020 Monday	Summative examination : 2 nd card final examination (Viva)			
	21.04.2020 Tuesday	Summative examination : 2 nd card final examination (Viva)			
	22.04.2020 Wednesday	Preparatory leave for Term-1 examination			
	23.04.2020 Thursday	Preparatory leave for Term-1 examination			
	24.04.2020 Friday	Preparatory leave for Term-1 examination			
	25.04.2020 Saturday	Weekly Holiday			
	26.04.2020 Sunday	Preparatory leave for Term-1 examination			
	27.04.2020 Monday			Summative examination	Physiology Term-examination (Written)
	28.04.2020 Tuesday	Preparatory leave for Term-1 examination			
	29.04.2020 Wednesday			Summative examination	Biochemistry Term-1 examination (Written)
	30.04.2020 Thursday	Preparatory leave for Term-1 examination			
	01.05.2020 Friday	May day			
	02.05.2020 Saturday	Weekly Holiday			
	03.05.2020 Sunday			Summative examination	Term-1 examination (Viva)
	04.05.2020 Monday	Preparatory leave for Term-1 final examination			
	05.05.2020 Tuesday			Summative examination	Term-1 examination (Viva)
	06.05.2020 Wednesday	Buddha Purina			
	07.05.2020 Thursday			Summative examination	Term-1 examination (Viva)
	08.05.2020 Friday	Seminar for Card-2			
	09.05.2020 Saturday	Weekly Holiday			
	10.05.2020 Sunday				

2nd Term

Duration: May/2019- October/2019

Second Term Final Exam: 3rd and 4th Week of October/2019

Class no	Date	Topic (Lecture)	Class no	Type of class	Topic
42	11.05.2020 Monday	Digestive Juices-1	21	Practical	Estimation of Blood glucose-2
43	12.05.2020 Tuesday	Digestive Juices-2	22	Practical	Estimation of Blood glucose-3
44	13.05.2020 Wednesday	Digestive Juices-3			
	14.05.2020 Thursday		14	Tutorial	Digestive Juices-1
	15.05.2020 Friday	Weekly Holiday			
	16.05.2020 Saturday				
45	17.05.2020 Sunday	Local hormones of GIT-1		Formative examination	<u>Item Exam</u> : Digestive Juices
46	18.05.2020 Monday	Local hormones of GIT-2	23	Practical	Estimation of Blood glucose-4
47	19.05.2020 Tuesday	Local hormones of GIT-3	15	Tutorial	Local hormones of GIT-1+2
	20.05.2020- 28.05.2020	Holidays of Eid-UI-Fitre			
	29.05.2020 Friday		16	Tutorial	Local hormones of GIT-3
	30.05.2020 Saturday	Weekly Holiday			
	31.05.2020 Sunday				
48	01.06.2020 Monday	Digestion of carbohydrate-1		Formative examination	<u>Item Exam</u> : Local hormones of GIT
49	02.06.2020 Tuesday	Digestion of carbohydrate-2	24	Practical	Estimation of Blood glucose-5
50	03.06.2020 Wednesday	Absorption of carbohydrate-1	17	Tutorial	Digestion of carbohydrate-1+2
51	04.06.2020 Thursday	Absorption of carbohydrate-2			
	05.06.2020 Friday		18	Tutorial	Absorption of carbohydrate-1+2
	06.06.2020 Saturday	Weekly Holiday			
	07.06.2020 Sunday				
52	08.06.2020 Monday	Digestion of lipid-1		Formative examination	<u>Item Exam</u> : Digestion & absorption of carbohydrate
53	09.06.2020 Tuesday	Digestion of lipid-2	25	Practical	Estimation of Blood glucose- Item Exam
54	10.06.2020 Wednesday	Absorption of lipid-3	19	Tutorial	Digestion of lipid
55	11.06.2020 Thursday	Absorption of lipid-4			
	12.06.2020 Friday		20	Tutorial	Absorption of lipid
	13.06.2020 Saturday	Weekly Holiday			

Class no	Date	Topic (Lecture)	Class no	Type of class (Tutorial & practical)	Topic
	14.06.2020 Sunday				
56	15.06.2020 Monday	Digestion of Protein-1		Formative examination	<u>Item Exam</u> : Digestion & absorption of lipid
57	16.06.2020 Tuesday	Digestion of Protein-2	26	Practical	Estimation of serum cholesterol-1
58	17.06.2020 Wednesday	Absorption of Protein-3	21	Tutorial	Digestion of Protein
59	18.06.2020 Thursday	Absorption of Protein -4			
	19.06.2020 Friday		22	Tutorial	Absorption of Protein
	20.06.2020 Saturday	Weekly Holiday			
	21.06.2020 Sunday				
60	22.06.2020 Monday	Bioenergetics		Formative examination	<u>Item Exam</u> : Digestion & absorption of Protein
61	23.06.2020 Tuesday	Biological oxidation	27	Practical	Estimation of serum cholesterol-2
62	24.06.2020 Wednesday	High energy phosphates	23	Tutorial	Bioenergetics & Biological oxidation
63	25.06.2020 Thursday	Oxidative phosphorylation, respiration chain			
	26.06.2020 Friday		24	Tutorial	Oxidative phosphorylation, respiration chain
	27.06.2020 Saturday	Weekly Holiday			
	28.06.2020 Sunday				
64	29.06.2020 Monday	Glycolysis-1		Formative examination	<u>Item Exam</u> : Bioenergetics & respiration chain
65	30.06.2020 Tuesday	Glycolysis-2, fate of pyruvate	28	Practical	Estimation of serum cholesterol-Item Exam
66	01.07.2020 Wednesday	TCA cycle	25	Tutorial	Glycolysis
67	02.07.2020 Thursday	HMP shunt			
	03.07.2020 Friday		26	Tutorial	fate of pyruvate, TCA cycle
	04.07.2020 Saturday	Weekly Holiday			
	05.07.2020 Sunday				
68	06.07.2020 Monday	Glycogenesis	27	Tutorial	HMP shunt
69	07.07.2020 Tuesday	Glycogenolysis	29	Practical	Estimation of serum Urea-1
70	08.07.2020 Wednesday	Gluconeogenesis	28	Tutorial	Glycogenesis & Glycogenolysis
71	09.07.2020 Thursday	Cori cycle			

Class no	Date	Topic (Lecture)	Class no	Type of class(Tutorial & practical)	Topic
	10.07.2020 Friday		29	Tutorial	Cori cycle
	11.07.2020 Saturday	Weekly Holiday			
	12.07.2020 Sunday				
72	13.07.2020 Monday	Fatty acid Metabolism		Formative examination	<u>Item Exam</u> : Carbohydrate Metabolism
73	14.07.2020 Tuesday	Ketone body Metabolism	30	Practical	Estimation of serum Urea-2
74	15.07.2020 Wednesday	Lipoprotein Metabolism-1	30	Tutorial	Fatty acid Metabolism
75	16.07.2020 Thursday	Lipoprotein Metabolism-2			
	17.07.2020 Friday		31	Tutorial	Ketone body Metabolism
	18.07.2020 Saturday	Weekly Holiday			
	19.07.2020 Sunday				
76	20.07.2020 Monday	Cholesterol metabolism		Formative examination	<u>Item Exam</u> : Carbohydrate Metabolism (Pending)
77	21.07.2020 Tuesday	Steroid metabolism	31	Practical	Estimation of serum urea: Item examination
78	22.07.2020 Wednesday	TAG, Phospholipids metabolism	32	Tutorial	Discussion of steroid, Cholesterol metabolism
79	23.07.2020 Thursday	Glycolipid metabolism			
	24.07.2020 Friday		33	Tutorial	TAG, Glycolipid Phospholipid metabolism
	25.07.2020 -08.08.2020	Holidays for Eid Ul Azha			
	09.08.2020 Sunday				
80	10.08.2020 Monday	Amino acid pool, protein turn over, nitrogen balance		Formative examination	<u>Card-3, Item-4 Exam</u> : Lipid metabolism
81	11.08.2020 Tuesday	Holiday for Janmastamy			
82	12.08.2020 Wednesday	Transamination, deamination Source and fate of ammonia, Urea cycle, Ammonia intoxication	34	Tutorial	Amino acid pool, Transamination, deamination, urea cycle
83	13.08.2020 Thursday	Catabolism of carbon skeleton of amino acid			
	14.08.2020 Friday		35	Tutorial	Catabolism of carbon skeleton of amino acid
	15.08.2020 Saturday	Holiday for National Mourning day			
	16.08.2020 Sunday				
84	17.08.2020 Monday	Review- protein metabolism		Formative examination	<u>Card-3, Item-4 Exam</u> : Protein metabolism
	18.08.2020 Tuesday		32	Practical	Estimation of serum creatinine :1
	19.08.2020 Wednesday	Preparatory leave for card final examination			

Class no	Date	Topic (Lecture)	Class no	Type of class	Topic
	20.08.2020 Thursday			Summative examination	3rd card final examination (Written)
	21.08.2020 Friday	Preparatory leave for card final examination			
	22.08.2020 Saturday	Weekly Holiday			
	23.08.2020 Sunday			Summative examination	3rd card final examination (Written)
	24.08.2020 Monday	Preparatory leave for card final examination			
	25.08.2020 Tuesday			Summative examination	3rd card examination (Written)
	26.08.2020 Wednesday	3 rd card final examination (Viva)			
	27.08.2020 Thursday	3 rd card final examination (Viva)			
	28.08.2020 Friday	3 rd card final examination (Viva)			
	29.08.2020 Saturday	Weekly Holiday			
	30.08.2020 Sunday	Holiday for Ashura			
85	31.08.2020 Monday	Body fluid: Distribution, measurement	36	Tutorial	Body fluid: Distribution, measurement
86	01.09.2020 Tuesday	Water turn over, Intake-output	33	Practical	Estimation of serum creatinine :3
87	02.09.2020 Wednesday	Volume Regulation	37	Tutorial	Water turn over, Intake-output
88	03.09.2020 Thursday	Volume Disorders			
	04.09.2020 Friday		38	Tutorial	Volume Regulation & Disorders
	05.09.2020 Saturday	Weekly Holiday			
	06.09.2020 Sunday				
89	07.09.2020 Monday	Composition of Body fluid,		Formative examination	<u>Item Exam</u> : Body fluids
90	08.09.2020 Tuesday	Sodium homeostasis	34	Practical	Estimation of serum creatinine :4
91	09.09.2020 Wednesday	Potassium homeostasis			
92	10.09.2020 Thursday	Calcium homeostasis			
	11.09.2020 Friday		39	Tutorial	Sodium , Potassium & Calcium homeostasis

Class no	Date	Topic (Lecture)	Class no	Type of class (Tutorial & practical)	Topic
	12.09.2020 Saturday	Weekly Holiday			
	13.09.2020 Sunday			Formative examination	Serum Electrolytes
93	14.09.2020 Monday	GFR	35	Practical	Estimation of serum creatinine : Item examination
94	15.09.2020 Tuesday	Tubular load, TM, renal threshold	40	Tutorial	GFR, tubular load, TM
95	16.09.2020 Wednesday	plasma clearance, Osmolar clearance, free water clearance			
96	17.09.2020 Thursday	acidification of urine	41	Tutorial	Clearances, acidification of urine
	18.09.2020 Friday				
	19.09.2020 Saturday	Weekly Holiday			
	20.09.2020 Sunday				
97	21.09.2020 Monday	Buffer & Respiratory system in Acid base homeostasis		Formative examination	Renal chemistry
98	22.09.2020 Tuesday	Renal system in Acid base homeostasis	36	Practical	Estimation of serum total protein: 1
99	23.09.2020 Wednesday	Metabolic Acidosis & Alkalosis			
100	24.09.2020 Thursday	Respiratory Acidosis & Alkalosis	42	Tutorial	Acid base homeostasis & Disorders
	25.09.2020 Friday			Formative examination	Acid base homeostasis & Disorders
	26.09.2020 Saturday	Weekly Holiday			
	27.09.2020 -01.10.2020			Summative examination	4 th card final examination (Written)
	02.10.2020 -06.10.2020			Summative examination	4 th card final examination (Viva)
	07.10.2020 -10.10.2020			Summative examination	Preparatory leave for 2 nd Term final examination
	11.10.2020 -17.10.2020			Summative examination	2 nd Term final examination (Written)
	18.10.2020 -23.10.2020			Summative examination	2 nd Term final examination (Viva)
	24.10.2020 Saturday	Weekly Holiday			
	25.10.2020 -02.11.2020	Holidays for Durga puja			

3rd Term
Duration: November/2020-February/2021
Third Term Final Exam: 3rd and 4th week of February/20201

Class no	Date	Topic (Lecture)	Class no	Type of class	Topic
101	03.11.2020 Tuesday	Clinical biochemistry- S I unit	04	Seminar	Seminar for card-4
102	04.11.2020 Wednesday	Photometry	43	Tutorial	Photometry, Sample collection
103	05.11.2020 Thursday	Sample collection & Laboratory hazards			
	06.11.2020 Friday		44	Tutorial	Laboratory hazards
	07.11.2020 Saturday	Weekly Holiday			
	08.11.2020 Sunday				
104	09.11.2020 Monday	Clinical enzymology-1		Formative Examination	Clinical biochemistry
105	10.11.2020 Tuesday	Clinical enzymology-2	37	Practical	Estimation of serum total protein: 2
106	11.11.2020 Wednesday	Cardiac markers-1	45	Tutorial	Clinical enzymology
107	12.11.2020 Thursday	Cardiac markers-2			
	13.11.2020 Friday		46	Tutorial	Cardiac markers
	14.11.2020 Saturday	Weekly Holiday			
	15.11.2020 Sunday				
108	16.11.2020 Monday	lipid profiles of blood-1		Formative Examination	Clinical enzymology & Cardiac markers
109	17.11.2020 Tuesday	lipid profiles of blood-2	38	Practical	Estimation of serum total protein:3
110	18.11.2020 Wednesday	Atherosclerosis-1	47	Tutorial	lipid profiles of blood
111	19.11.2020 Thursday	Atherosclerosis-2			
	20.11.2020 Friday		48	Tutorial	Atherosclerosis
	21.11.2020 Saturday	Weekly Holiday			
	22.11.2020 Sunday				
112	23.11.2020 Monday	Diabetes (Definition + types)		Formative Examination	lipid profiles of blood & Atherosclerosis
113	24.11.2020 Tuesday	Diagnosis of diabetes mellitus:1	39	Practical	Estimation of serum total protein:4
114	25.11.2020 Wednesday	Diagnosis of diabetes mellitus:2	49	Tutorial	Diabetes (Definition + types+ Diagnosis)
115	26.11.2020 Thursday	OGTT, IGT, IFG, HbA1C			
	27.11.2020 Friday		50	Tutorial	OGTT, IGT, IFG, HbA1C
	28.11.2020 Saturday	Weekly Holiday			
	29.11.2020 Sunday				
	30.11.2020 Monday			Formative Examination	Diabetes mellitus

Class no	Date	Topic (Lecture)	Class no	Type of class (Tutorial & practical)	Topic
116	01.12.2020 Tuesday	Thyroid function tests and interpretation -2			
117	02.12.2020 Wednesday	Renal function tests and interpretation-1	40	practical	Estimation of serum total protein:5
118	03.12.2020 Thursday	Renal function tests and interpretation-2			
	04.12.2020 Friday		51	Tutorial	Thyroid & Renal function tests and interpretation
	05.12.2020 Saturday	Weekly Holiday			
	06.12.2020 Sunday				
119	07.12.2020 Monday	Commonly done Liver function tests -1		Formative examination	Thyroid & renal function tests
120	08.12.2020 Tuesday	Commonly done Liver function tests -2	41	practical	Estimation of serum total protein: Item
121	09.12.2020 Wednesday	Jaundice-1	52	Tutorial	Commonly done Liver function tests & Jaundice
122	10.12.2020 Thursday	Jaundice-2			
	11.12.2020 Friday			Formative examination	Commonly done Liver function tests & Jaundice
	12.12.2020 Saturday	Weekly Holiday			
	13.12.2020 Sunday			Summative examination	5 th card final exam (Written)
	14.12.2020 Monday	Preparatory leave for card final examination			
	15.12.2020 Tuesday			Summative examination	5 th card final exam (Written)
	16.12.2020 Wednesday	Holiday for victory Day			
	17.12.2020 Thursday			Summative examination	5 th card final exam (Written)
	18.12.2020 Friday	Preparatory leave for card final examination			
	19.12.2020 Saturday	Preparatory leave for card final examination and Weekly Holiday			
	20.12.2020 Sunday			Summative examination	5 th card final examination (Viva)
	21.12.2020 Monday			Summative examination	5 th card final examination (Viva)
	22.12.2020 Tuesday			Summative examination	5 th card final examination (Viva)
	23.12.2020 Wednesday	Review of card-5	42	Practical	Estimation of serum bilirubin -2
	24.12.2020 Thursday	Seminar for card-5			
	25.12.2020 Friday	Holiday for Christmas Day			
	26.12.2020 Saturday	Weekly Holiday			

Class no	Date	Topic (Lecture)	Class no	Type of class (Tutorial & practical)	Topic
	27.12.2020 Sunday				
123	28.12.2020 Monday	Nucleic acids, nucleotides	43	Practical	Estimation of serum bilirubin -3
124	29.12.2020 Tuesday	DNA	53	Tutorial	Nucleic acids, nucleotides
125	30.12.2020 Wednesday	DNA organization	44	Practical	Estimation of serum bilirubin -4
126	31.12.2020 Thursday	RNA			
	01.01.2021 Friday		54	Tutorial	DNA organization ,RNA
	02.01.2021 Saturday	Weekly Holiday			
	03.01.2021 Sunday				
127	04.01.2021 Monday	Replication		Formative examination	Nucleic acids, DNA, RNA, DNA organization
128	05.01.2021 Tuesday	Cell cycle	45	Practical	Estimation of serum bilirubin -5
129	06.01.2021 Wednesday	Transcription	55	Tutorial	Replication, Cell cycle
130	07.01.2021 Thursday	Post transcriptional modification			
	08.01.2021 Friday		56	Tutorial	Transcription ,Post transcriptional modification
	09.01.2021 Saturday	Weekly Holiday			
	10.01.2021 Sunday				
131	11.01.2021 Monday	Translation		Formative examination	Replication, Transcription post transcriptional modification
132	12.01.2021 Tuesday	Post translational modification	46	Practical	Estimation of serum bilirubin:6
133	13.01.2021 Wednesday	The central dogma	47	Practical	Estimation of serum bilirubin:7
134	14.01.2021 Thursday	Genome, Gene			
	15.01.2021 Friday		57	Tutorial	Translation ,Post translational modification, The central dogma, Genome, Gene
	16.01.2021 Saturday	Weekly Holiday			
	17.01.2021 Sunday				
135	18.01.2021 Monday	Genotype, Phenotype, trait, allele		Formative examination	Translation and post translational modification
136	19.01.2021 Tuesday	Genetic code, Codon	48	Practical	Estimation of serum bilirubin -8
137	20.01.2021 Wednesday	Mutation	58	Tutorial	Genotype, Phenotype, Genetic code, Mutation
138	21.01.2021 Thursday	Mutagens			

Class no	Date	Topic (Lecture)	Class no	Type of class (Tutorial & practical)	Topic
	22.01.2021 Friday		49	Practical	Estimation of serum bilirubin -9
	23.01.2021 Saturday	Weekly Holiday			
	24.01.2021 Sunday				
139	25.01.2021 Monday	Recombinant DNA technology		Formative examination	Genome, Gene, Genetic code, Codon, Mutation,
140	26.01.2021 Tuesday	Cloning, PCR	50	Practical	Estimation of serum bilirubin: Item examination
141	27.01.2021 Wednesday	RFLP, VNTR	59	Tutorial	DNA technology, PCR, Cloning, RFLP, VNTR
06	28.01.2021 Thursday	Seminar for card-6			
	29.01.2021 Friday			Formative examination	Recombinant DNA technology, Cloning Recombinant DNA technology, Cloning
	30.01.2021 Saturday	Weekly Holiday			
	31.01.2021 Sunday			Summative examination	6 th card final examination (Written)
	01.02.2021 Monday	Preparatory leave for card final examination			
	02.02.2021 Tuesday			Summative examination	6 th card final examination (Written)
	03.02.2021 Wednesday	Preparatory leave for card final examination			
	04.02.2021 Thursday			Summative examination	6 th card final exam (Written)
	05.02.2021 Friday	Preparatory leave for card final examination			
	06.02.2021 Saturday	Weekly Holiday			
	07.02.2021 Sunday			Summative examination	6 th card final examination (Viva)
	08.02.2021 Monday			Summative examination	6 th card final examination (Viva)
	09.02.2021 Tuesday			Summative examination	6 th card final examination (Viva)
	10.02.2021- 15.02.2021	Preparatory leave for Term final examination			
	16.02.2021- 20.02.2021	Term-3examination (Written)			
	21.02.2021 Saturday	International mother language day			
	22.02.2021- 28.02.2021	Term-3examination (Viva)			
	01.03.2021- 31.03.2021	Supplementary Examination			
	01.04.2021- 30.04.2021	Preparation for the 1st Professional MBBS Examination			
	01.05.2021	May Day			
	02.05.2021- 30.06.2021	Time for 1st Professional MBBS Examination (Regular) and Result			

