LECTURES PLANNED SCHEDULE
on ___Biological chemistry____ for ___3-d year__students
specialty 226 Pharmacy (Language of instructions – English)
Фм18(5,0д)англ –01-11
spring semester, 2020-2021 a.y.

##	Date	Lecture Topic	Hours	Lecturer
MODULE 2. METABOLISM AND ITS REGULATION **USE THE LINK TO JOIN ZOOM CONFERENCE:** **https://us02web.zoom.us/j/4769725952?pwd=dXg2Nk1VR2VJaTBzYVd1bE1DbjVPQT09** **IDENTIFIER: 476 972 5952** **PASSWORD: 2L8oxg**				
1.	19.01.2021	Carbohydrate Metabolism, Its Regulation and Pathology.	1	as.prof. Kravchenko G.B.
2.	26.01.2021	Carbohydrate Metabolism, Its Regulation and Pathology.	1	as.prof. Kravchenko G.B.
3.	02.02.2021	Carbohydrate Metabolism, Its Regulation and Pathology.	1	as.prof. Kravchenko G.B.
4.	09.02.2021	Lipid Metabolism, Its Regulation and Pathology.	1	as.prof. Kravchenko G.B.
5.	16.02.2021	Lipid Metabolism, Its Regulation and Pathology.	1	as.prof. Kravchenko G.B.
6.	23.02.2021	General Amino Acid Pathways, There Regulation and Pathology. Digestion of proteins in the stomach and small intestine. Protein putrefaction.	1	as.prof. Kravchenko G.B.
7.	02.03.2021	Metabolism of proteins and amino acids.	1	as.prof. Kravchenko G.B.
8.	09.03.2021	Ammonia toxicity and urea formation.	1	as.prof. Kravchenko G.B.
9.	16.03.2021	Metabolism of conjugated proteins. Heme metabolism. Heme biosynthesis disorders. Bilirubin formation . jaundices.	1	as.prof. Kravchenko G.B.
10.	23.03.2021	Pyrimidine and purine metabolism. Disorders.	1	as.prof. Kravchenko G.B.
11.	30.03.2021	Transfer of Genetic Information. Replication and DNA repair.	1	as.prof. Kravchenko G.B.
12.	06.04.2021	Molecular basis of transcription. Genetic code.	1	as.prof. Kravchenko G.B.
13.	13.04.2021	Protein Biosynthesis in the Cell.	1	as.prof. Kravchenko G.B.
14.	20.04.2021	Mechanisms of Protein Biosynthesis Regulation. Antibiotics.	1	as.prof. Kravchenko G.B.
15.	27.04.2021	Mutations. Molecular pathology.	1	as.prof. Kravchenko G.B.
16.	04.05.2021	Principles of treatment and prevention of molecular diseases.	1	as.prof. Kravchenko G.B.
		Total:	16	

Note: lectures are given on Tuesday from 10:25 to 11:10 online at Zoom.

Head of the biological chemistry department,
Professor _____ Kravchenko V.M.

PRACTICAL TRAINING PLANNED SCHEDULE

on ___Biological Chemistry____ for ___3-d year__students

specialty 226 Pharmacy, industrial pharmacy (Language of instructions – English)

Фм18(5,0д)англ-04,11

spring semester, 2020-2021 a.y.

##	Date	Topic	Hours	Points	
				min	max
CONTENT MODULE 3. GENEREL PRINCIPLES OF CELLULAR METABOLISM ORGANISATION.					
1.	18.01.2021	Principles of Cell Signaling. Pathways of Intracellular Signal Transduction.	4	3	5
2.	01.02.2021	Hormones and Neurotransmitters. Endocrine Glands. Classification of Hormones. Hyper- and Hypofunctions of Endocrine Glands. Endocrine Glands Functional Disorders and There Correction.	4	4	6
		Final content module control CM3		2	4
		Total for CM3		9	15
CONTENT MODULE 4. SOME METABOLIC PROCESSES					
3.	15.02.2021	Carbohydrate Metabolism, Its Regulation and Pathology.	4	3	6
4.	01.03.2021	Lipid Metabolism, Its Regulation and Pathology.	4	3	6
5.	15.03.2021	Digestion of proteins in the stomach and small intestine. Protein putrefaction.	4	1	3
6.	29.03.2021	Metabolism of proteins and amino acids. Ammonia toxicity and urea formation.	4	2	3
7.	12.04.2021	Metabolism of Heme and Nucleoproteins.	4	3	5
8.	26.04.2021	Transfer of Genetic Information. Protein Biosynthesis in the Cell. Mechanisms of Protein Biosynthesis Regulation. Antibiotics.	4	4	6
		Final content module control CM4		10	16
		Total for CM4		25	45
	10.05.2021	***Final module 2 control: "Metabolism and its regulation".***	4	25	40
	12.05.2021	***Module 2 rating improvement: "Metabolism and its regulation".***			
		TOTAL RATING FOR MODULE 2:	**36**	**60**	**100**

Head of the biological chemistry department,
Professor _____ Kravchenko V.M.

PRACTICAL TRAINING PLANNED SCHEDULE

on ___Biological Chemistry____ for ___3-d year__students

specialty 226 Pharmacy, industrial pharmacy (Language of instructions – English)

Фм17(5,0д)англ-06

spring semester, 2020-2021 a.y.

##	Date	Topic	Hours	Points	
				min	max
CONTENT MODULE 3. GENEREL PRINCIPLES OF CELLULAR METABOLISM ORGANISATION.					
1.	20.01.2021	Principles of Cell Signaling. Pathways of Intracellular Signal Transduction.	4	3	5
2.	03.02.2021	Hormones and Neurotransmitters. Endocrine Glands. Classification of Hormones. Hyper- and Hypofunctions of Endocrine Glands. Endocrine Glands Functional Disorders and There Correction.	4	4	6
		Final content module control CM3		2	4
		Total for CM3		9	15
CONTENT MODULE 4. SOME METABOLIC PROCESSES					
3.	17.02.2021	Carbohydrate Metabolism, Its Regulation and Pathology.	4	3	6
4.	03.03.2021	Lipid Metabolism, Its Regulation and Pathology.	4	3	6
5.	17.03.2021	Digestion of proteins in the stomach and small intestine. Protein putrefaction.	4	1	3
6.	31.03.2021	Metabolism of proteins and amino acids. Ammonia toxicity and urea formation.	4	2	3
7.	14.04.2021	Metabolism of Heme and Nucleoproteins.	4	3	5
8.	28.04.2021	Transfer of Genetic Information. Protein Biosynthesis in the Cell. Mechanisms of Protein Biosynthesis Regulation. Antibiotics.	4	4	6
		Final content module control CM4		10	16
		Total for CM4		25	45
	12.05.2021	***Final module 2 control: "Metabolism and its regulation".***	4	25	40
	13.05.2021	***Module 2 rating improvement: "Metabolism and its regulation".***			
		TOTAL RATING FOR MODULE 2:	**36**	**60**	**100**

Head of the biological chemistry department,
Professor _____ Kravchenko V.M.

PRACTICAL TRAINING PLANNED SCHEDULE

on ___Biological Chemistry____ for ___3-d year__students

specialty 226 Pharmacy, industrial pharmacy (Language of instructions – English)

Фм18(5,0д)англ-08

spring semester, 2020-2021 a.y.

##	Date	Topic	Hours	Points	
				min	max
CONTENT MODULE 3. GENEREL PRINCIPLES OF CELLULAR METABOLISM ORGANISATION.					
1.	21.01.2021	Principles of Cell Signaling. Pathways of Intracellular Signal Transduction.	4	3	5
2.	04.02.2021	Hormones and Neurotransmitters. Endocrine Glands. Classification of Hormones. Hyper- and Hypofunctions of Endocrine Glands. Endocrine Glands Functional Disorders and There Correction.	4	4	6
		Final content module control CM3		2	4
		Total for CM3		9	15
CONTENT MODULE 4. SOME METABOLIC PROCESSES					
3.	18.02.2021	Carbohydrate Metabolism, Its Regulation and Pathology.	4	3	6
4.	04.03.2021	Lipid Metabolism, Its Regulation and Pathology.	4	3	6
5.	18.03.2021	Digestion of proteins in the stomach and small intestine. Protein putrifaction.	4	1	3
6.	01.04.2021	Metabolism of proteins and amino acids. Ammonia toxicity and urea formation.	4	2	3
7.	15.04.2021	Metabolism of Heme and Nucleoproteins.	4	3	5
8.	29.04.2021	Transfer of Genetic Information. Protein Biosynthesis in the Cell. Mechanisms of Protein Biosynthesis Regulation. Antibiotics.	4	4	6
		Final content module control CM4		10	16
		Total for CM4		25	45
	13.05.2021	***Final module 2 control: "Metabolism and its regulation".***	4	25	40
	15.05.2021	***Module 2 rating improvement: "Metabolism and its regulation".***			
		TOTAL RATING FOR MODULE 2:	**36**	**60**	**100**

Head of the biological chemistry department,
Professor _____ Kravchenko V.M.

PRACTICAL TRAINING PLANNED SCHEDULE

on ___Biological Chemistry____ for ___3-d year__students

specialty 226 Pharmacy, industrial pharmacy (Language of instructions – English)

Фм18(5,0д)англ-01,10

spring semester, 2019-2020 a.y.

##	Date	Topic	Hours	Points	
				min	max
CONTENT MODULE 3. GENEREL PRINCIPLES OF CELLULAR METABOLISM ORGANISATION.					
1.	22.01.2021	Principles of Cell Signaling. Pathways of Intracellular Signal Transduction.	4	3	5
2.	05.02.2021	Hormones and Neurotransmitters. Endocrine Glands. Classification of Hormones. Hyper- and Hypofunctions of Endocrine Glands. Endocrine Glands Functional Disorders and There Correction.	4	4	6
		Final content module control CM3		2	4
		Total for CM3		9	15
CONTENT MODULE 4. SOME METABOLIC PROCESSES					
3.	19.02.2021	Carbohydrate Metabolism, Its Regulation and Pathology.	4	3	6
4.	05.03.2021	Lipid Metabolism, Its Regulation and Pathology.	4	3	6
5.	19.03.2021	Digestion of proteins in the stomach and small intestine. Protein putrefaction.	4	1	3
6.	02.04.2021	Metabolism of proteins and amino acids. Ammonia toxicity and urea formation.	4	2	3
7.	16.04.2021	Metabolism of Heme and Nucleoproteins.	4	3	5
8.	30.04.2021	Transfer of Genetic Information. Protein Biosynthesis in the Cell. Mechanisms of Protein Biosynthesis Regulation. Antibiotics.	4	4	6
		Final content module control CM4		10	16
		Total for CM4		25	45
9	14.05.2021	***Final module 2 control: "Metabolism and its regulation".***	4	25	40
10	17.05.2021	***Module 2 rating improvement: "Metabolism and its regulation".***			
		TOTAL RATING FOR MODULE 2:	**36**	**60**	**100**

Head of the biological chemistry department,
Professor _____ Kravchenko V.M.

PRACTICAL TRAINING PLANNED SCHEDULE

on ___Biological Chemistry____ for ___3-d year__students

specialty 226 Pharmacy, industrial pharmacy (Language of instructions – English)

Фм18(5,0д)англ-03

spring semester, 2020-2021 a.y.

##	Date	Topic	Hours	Points	
				min	max
CONTENT MODULE 3. GENEREL PRINCIPLES OF CELLULAR METABOLISM ORGANISATION.					
1.	25.01.2021	Principles of Cell Signaling. Pathways of Intracellular Signal Transduction.	4	3	5
2.	08.02.2021	Hormones and Neurotransmitters. Endocrine Glands. Classification of Hormones. Hyper- and Hypofunctions of Endocrine Glands. Endocrine Glands Functional Disorders and There Correction.	4	4	6
		Final content module control CM3		2	4
		Total for CM3		9	15
CONTENT MODULE 4. SOME METABOLIC PROCESSES					
3.	22.02.2021	Carbohydrate Metabolism, Its Regulation and Pathology.	4	3	6
4.	3a 08.03.2021	Lipid Metabolism, Its Regulation and Pathology.	4	3	6
5.	22.03.2021	Digestion of proteins in the stomach and small intestine. Protein putrefaction.	4	1	3
6.	05.04.2021	Metabolism of proteins and amino acids. Ammonia toxicity and urea formation.	4	2	3
7.	19.04.2021	Metabolism of Heme and Nucleoproteins.	4	3	5
8.	03.05.2021	Transfer of Genetic Information. Protein Biosynthesis in the Cell. Mechanisms of Protein Biosynthesis Regulation. Antibiotics.	4	4	6
		Final content module control CM4		10	16
		Total for CM4		25	45
9	17.05.2021	***Final module 2 control: "Metabolism and its regulation".***	4	25	40
10	18.05.2021	***Module 2 rating improvement: "Metabolism and its regulation".***			
		TOTAL RATING FOR MODULE 2:	**36**	**60**	**100**

Head of the biological chemistry department,
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PRACTICAL TRAINING PLANNED SCHEDULE

on ___Biological Chemistry____ for ___3-d year__students

specialty 226 Pharmacy, industrial pharmacy (Language of instructions – English)

Фм18(5,0д)англ-05

spring semester, 2020-2021 a.y.

##	Date	Topic	Hours	Points	
				min	max
CONTENT MODULE 3. GENEREL PRINCIPLES OF CELLULAR METABOLISM ORGANISATION.					
1.	27.01.2021	Principles of Cell Signaling. Pathways of Intracellular Signal Transduction.	4	3	5
2.	10.02.2021	Hormones and Neurotransmitters. Endocrine Glands. Classification of Hormones. Hyper- and Hypofunctions of Endocrine Glands. Endocrine Glands Functional Disorders and There Correction.	4	4	6
		Final content module control CM3		2	4
		Total for CM3		9	15
CONTENT MODULE 4. SOME METABOLIC PROCESSES					
3.	24.02.2021	Carbohydrate Metabolism, Its Regulation and Pathology.	4	3	6
4.	10.03.2021	Lipid Metabolism, Its Regulation and Pathology.	4	3	6
5.	24.03.2021	Digestion of proteins in the stomach and small intestine. Protein putrefaction.	4	1	3
6.	07.04.2021	Metabolism of proteins and amino acids. Ammonia toxicity and urea formation.	4	2	3
7.	21.04.2021	Metabolism of Heme and Nucleoproteins.	4	3	5
8.	05.05.2021	Transfer of Genetic Information. Protein Biosynthesis in the Cell. Mechanisms of Protein Biosynthesis Regulation. Antibiotics.	4	4	6
		Final content module control CM4		10	16
		Total for CM4		25	45
9	19.05.2021	***Final module 2 control: "Metabolism and its regulation".***	4	25	40
10	20.05.2021	***Module 2 rating improvement: "Metabolism and its regulation".***			
		TOTAL RATING FOR MODULE 2:	**36**	**60**	**100**

Head of the biological chemistry department,
Professor _____ Kravchenko V.M.

PRACTICAL TRAINING PLANNED SCHEDULE

on ___Biological Chemistry____ for ___3-d year__students

specialty 226 Pharmacy, industrial pharmacy (Language of instructions – English)

Фм17(5,0д)англ-07

spring semester, 2020-2021 a.y.

##	Date	Topic	Hours	Points	
				min	max
CONTENT MODULE 3. GENEREL PRINCIPLES OF CELLULAR METABOLISM ORGANISATION.					
1.	28.01.2021	Principles of Cell Signaling. Pathways of Intracellular Signal Transduction.	4	3	5
2.	11.02.2021	Hormones and Neurotransmitters. Endocrine Glands. Classification of Hormones. Hyper- and Hypofunctions of Endocrine Glands. Endocrine Glands Functional Disorders and There Correction.	4	4	6
		Final content module control CM3		2	4
		Total for CM3		9	15
CONTENT MODULE 4. SOME METABOLIC PROCESSES					
3.	25.02.2021	Carbohydrate Metabolism, Its Regulation and Pathology.	4	3	6
4.	11.03.2021	Lipid Metabolism, Its Regulation and Pathology.	4	3	6
5.	25.03.2021	Digestion of proteins in the stomach and small intestine. Protein putrefaction.	4	1	3
6.	08.04.2021	Metabolism of proteins and amino acids. Ammonia toxicity and urea formation.	4	2	3
7.	22.04.2021	Metabolism of Heme and Nucleoproteins.	4	3	5
8.	06.05.2021	Transfer of Genetic Information. Protein Biosynthesis in the Cell. Mechanisms of Protein Biosynthesis Regulation. Antibiotics.	4	4	6
		Final content module control CM4		10	16
		Total for CM4		25	45
9	20.05.2021	***Final module 2 control: "Metabolism and its regulation".***	4	25	40
10	21.05.2021	***Module 2 rating improvement: "Metabolism and its regulation".***			
		TOTAL RATING FOR MODULE 2:	**36**	**60**	**100**

Head of the biological chemistry department,
Professor _____ Kravchenko V.M.

PRACTICAL TRAINING PLANNED SCHEDULE

on ___Biological Chemistry____ for ___3-d year__students

specialty 226 Pharmacy, industrial pharmacy (Language of instructions – English)

Фм17(5,0д)англ-02,09

spring semester, 2020-2021 a.y.

##	Date	Topic	Hours	Points	
				min	max
CONTENT MODULE 3. GENEREL PRINCIPLES OF CELLULAR METABOLISM ORGANISATION.					
1.	29.01.2021	Principles of Cell Signaling. Pathways of Intracellular Signal Transduction.	4	3	5
2.	12.02.2021	Hormones and Neurotransmitters. Endocrine Glands. Classification of Hormones. Hyper- and Hypofunctions of Endocrine Glands. Endocrine Glands Functional Disorders and There Correction.	4	4	6
		Final content module control CM3		2	4
		Total for CM3		9	15
CONTENT MODULE 4. SOME METABOLIC PROCESSES					
3.	26.02.2021	Carbohydrate Metabolism, Its Regulation and Pathology.	4	3	6
4.	12.03.2021	Lipid Metabolism, Its Regulation and Pathology.	4	3	6
5.	26.03.2021	Digestion of proteins in the stomach and small intestine. Protein putrefaction.	4	1	3
6.	09.04.2021	Metabolism of proteins and amino acids. Ammonia toxicity and urea formation.	4	2	3
7.	23.04.2021	Metabolism of Heme and Nucleoproteins.	4	3	5
8.	07.05.2021	Transfer of Genetic Information. Protein Biosynthesis in the Cell. Mechanisms of Protein Biosynthesis Regulation. Antibiotics.	4	4	6
		Final content module control CM4		10	16
		Total for CM4		25	45
9	21.05.2021	***Final module 2 control: "Metabolism and its regulation".***	4	25	40
10	22.05.2021	***Module 2 rating improvement: "Metabolism and its regulation".***			
		TOTAL RATING FOR MODULE 2:	**36**	**60**	**100**

Head of the biological chemistry department,
Professor _____ Kravchenko V.M.