

**MINISTRY OF SCIENCE AND HIGHER EDUCATION OF THE RUSSIAN FEDERATION  
MINISTRY OF EDUCATION AND SCIENCE OF THE KYRGYZ REPUBLIC**

Government-run Educational Institution of Higher Professional Education  
Kyrgyz-Russian Slavic University named after B.N. Yeltsin



## History of medicine Course Outline (module)

Anchored to the  
Academic plan

**Public health and health care**

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Speciality 31.05.01. - RF, 560001 - KR General Medicine

Qualification **medical doctor**

Mode of Study **intramural**

Total Credit Value **2 credit point**

Course Hours **72**

Scope of Testing Semesters:

including:

credits 2

in-class learning **54**

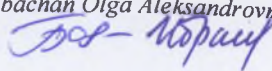
individual work **17,7**

### Distribution of discipline hours by semester

Semester (<course >.< Semester on the course >)	2 (1.2)		Total	
	AC	CO	AC	CO
Weeks				
Type of Training	AC	CO	AC	CO
Lectures	18	18	18	18
Practical Session	36	36	36	36
Contact	0,3	0,3	0,3	0,3
Including Interactive Session	2	2	2	2
Total In-class Session	54	54	54	54
Contact	54,3	54,3	54,3	54,3
Contact	17,7	17,7	17,7	17,7
Total	72	72	72	72

The Course outline developed by:

*the candidate of medical Sciences, associate Professor Bolbachan Olga Aleksandrovna; the candidate of medical Sciences, associate Professor Ibraimova Dzhyldyz Dzhumadilovna*



Reviewers:

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The Course Outline

**History of medicine**

developed in full compliance with FSES 3++:

Federal State Education Standards of Higher Professional Education for students trained for specialty 31.05.01 (The Ministry of Education and Science of the Russian Order of 12.08.2020r. №988)

in accordance with Academic Curriculum:

31.05.01. - RF, 560001 - KR Medical care

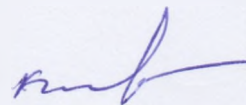
confirmed by KRSU Board of Academics in 28.06.2024 Protocol № 11.

The Course Outline endorsed by **Public health and health care** Department Meeting

Record of 26.08.2024 г. № 1

Valid for: 2024-2029 e.y. academic year

The Head of Department Doctor of medical science, Professor N.K. Kasiev



### 1. OBJECTIVES OF LEARNING THE DISCIPLINE

1.1	Formation of students' ability to implement medical practice based on knowledge of outstanding figures in medicine and health care, outstanding medical discoveries and theories, the evolution of medical biological ideas and concepts, the influence of the principles of humanism on medicine.
1.2	To teach students to clearly identify the priorities of scientific discoveries, approaches for an objective assessment of theories of medicine and understanding of the current stage of development of medical science and health care practice.

### 2. PLACE OF DISCIPLINE IN THE STRUCTURE OF BEP

Loop (section) BEP:	B1.O
<b>2.1</b>	<b>Requirements for the preliminary preparation of the student:</b>
2.1.1	Basics of research work
2.1.2	History (History of Russia and general history)
2.1.3	History of Kyrgyzstan
2.1.4	Basics of self-knowledge
<b>2.2</b>	<b>Disciplines and practices for which the development of this discipline (module) is necessary as a previous one:</b>
2.2.1	Basics of research work
2.2.2	Manas studies
2.2.3	Philosophy
2.2.4	Bioethics

### 3. STUDENT'S COMPETENCES FORMED AS A RESULT OF LEARNING THE DISCIPLINE (MODULE)

#### UC-5: Able to analyze and take into account the diversity of cultures in the process of intercultural interaction

<b>Know:</b>	
Level 1	The main stages, general patterns and distinctive features of the emergence of intercultural interaction
Level 2	The formation and development of medicine as a science at various stages of the formation of society and the sphere of practical activity
Level 3	The role of outstanding scientists at various stages of the formation of society and the contribution of leading medical schools to the development of medical science and scientific priorities in the field of medicine
<b>Be able to:</b>	
Level 1	Conduct research on the main patterns and trends in the development of medical science and practice of the diversity of intercultural interaction
Level 2	Use historical knowledge to assess the current state of medicine
<b>Own:</b>	
Level 1	Methods for analyzing socially significant problems and processes at different stages of the development of society, medicine and medicine
Level 2	An integrated approach to understanding the creative heritage of outstanding representatives of medicine at various stages of society development
<b>Be able to:</b>	
Level 3	Analyze the diversity of cultures in the development of medicine as a science
<b>Own:</b>	
Level 3	The ability for a logical and reasoned analysis of the development of medicine at various stages of the development of society

#### UC-6: Able to determine and implement the priorities of his own activity and ways to improve it on the basis of self-esteem and education throughout life

<b>Know:</b>	
Level 1	the main priorities of effective management of their own activities in the learning process and practical activities
Level 2	self-assessment methodology for improving one's own performance
Level 3	a method of self-control and self-development using health-preserving technologies
<b>Be able to:</b>	
Level 1	effectively plan your own activities
Level 2	determine and implement priorities for improving their own activities
Level 3	apply the method of self-assessment and self-control of their own activities

<b>Own:</b>	
Level 1	management skills of cognitive own activity
Level 2	skills to improve self-esteem and self-control of their own activities
Level 3	principles of self-education in the learning process and practical activity
<b>GPC-1: Able to implement moral and legal norms, ethical and deontological principles in professional activities</b>	
<b>Know:</b>	
Level 1	basic ethical and deontological principles of medical ethics
Level 2	ethical and deontological aspects of the problematics of modern professional activity
Level 3	fundamentals of moral and legal knowledge in professional activity
<b>Be able to:</b>	
Level 1	Use regulatory information in professional activities
Level 2	Comparison of various features of ethical principles of work in the professional activities of doctors at different stages of the formation of society
Level 3	Determine the practical value of the ethical and deontological principles of the professional activity of doctors at different stages of the formation of society
<b>Own:</b>	
Level 1	Skills in the use of legal knowledge
Level 2	Methods for comparing various features of the ethical and deontological principles of the activities of doctors at different stages of the formation of society
Level 3	The skills of expressing one's own position regarding ethical and deontological principles in the professional activities of doctors at different stages of the formation of society

**As a result of mastering the discipline, the student must**

<b>3.1</b>	<b>Know:</b>
3.1.1	• General laws of the world-historical process of the formation and development of medicine.
3.1.2	• Achievements of each new era in the field of medicine.
3.1.3	• Differences between folk, traditional and scientific medicine.
3.1.4	• Life and work of outstanding doctors and medical scientists, scientific achievements of their schools.
3.1.5	• History of the most important discoveries in medicine.
3.1.6	• The history of the development of medical ethics.
<b>3.2</b>	<b>Be able to:</b>
3.2.1	• Analyze the information value of the most important stages in the development of medicine.
3.2.2	• Independently work with educational, scientific, reference literature and prepare abstract messages, presentations.
<b>3.3</b>	<b>Own:</b>
3.3.1	• To reveal the natural scientific essence of outstanding discoveries in medicine and the contribution of outstanding doctors to its development.
3.3.2	• Ability for logical and reasoned analysis of the development of medicine, discussion and presentation of materials.

**4. STRUCTURE AND CONTENT OF THE DISCIPLINE (MODULE)**

Activity code	Names of sections and topics / type of activity /	Semester / Course	Hours	Competencies	Literature	Interact.	Prep. prog.	Note
	<b>Section 1. History of healing</b>							
1.1	Introduction to history of medicine, "Medicine in primitive society / Lecture /	2	2	BEP -1 UC - 5 UC -6	L1.1 L 1.2 L 1.3 L 2.1 L 3. 1L1.4 E 1 E 2			
1.2	Healing in the countries of the ancient East / Lecture /	2	2	BEP -1 UC - 5 UC -6	L1.1 L 1.2 L 1.3 L 2.1 L 3. 1L1.4 E 1 E 2			

	Middle Ages (development anatomy, physiology and surgery) / Pr /			5 UC -6	L 1.3 L 2.1 L 3. 1L1.4 E 1 E 2			
1.15	Medicine of the late period Middle Ages (history the emergence of epidemics and medicine of Moscow State) / Pr /	2	2	BEP -1 UC - 5 UC -6	L1.1 L 1.2 L 1.3 L 2.1 L 3. 1L1.4 E 1 E 2			
1.16	Healing in the primitive society / independent work/	2	1	BEP -1 UC - 5 UC -6	L1.1 L 1.2 L 1.3 L 2.1 L 3. 1L1.4 E 1 E 2			
1.17	Medicine in countries Ancient East (in Sumer, Babylon, Assyria and Ancient Egypt) / independent work /	2	1	BEP -1 UC - 5 UC -6	L1.1 L 1.2 L 1.3 L 2.1 L 3. 1L1.4 E 1 E 2			

1.18	Medicine in the countries of the Ancient East (India, Judea, China, Tibet) / independent work /	2	1	BEP -1 UC -5 UC -6	L1.1 L 1.2 L 1.3 L 2.1 L 3. 1L1.4 E 1 E 2			
1.19	Medicine and medicine in the countries of the ancient Mediterranean (in the Ancient world - Ancient Greece, Alexandria) / independent work /	2	1	BEP -1 UC -5 UC -6	L1.1 L 1.2 L 1.3 L 2.1 L 3. 1L1.4 E 1 E 2			
1.20	Medicine and medicine in the countries of the ancient Mediterranean (in the Ancient world - Ancient Rome) / independent work /	2	1	BEP -1 UC -5 UC -6	L1.1 L 1.2 L 1.3 L 2.1 L 3. 1L1.4 E 1 E 2			
1.21	Medicine of the periods of the early and advanced Middle Ages (Byzantium, Arab Caliphates) / independent work /	2	1	BEP -1 UC -5 UC -6	L1.1 L 1.2 L 1.3 L 2.1 L 3. 1L1.4 E 1 E 2			
1.22	Medicine of the periods of the early and developed Middle Ages (Kievan Rus, Armenia and Georgia) / independent work /	2	1	BEP -1 UC -5 UC -6	L1.1 L 1.2 L 1.3 L 2.1 L 3. 1L1.4 E 1 E 2			
1.23	Medicine of the late Middle Ages (development of anatomy, physiology and surgery) / independent work /	2	1	BEP -1 UC -5 UC -6	L1.1 L 1.2 L 1.3 L 2.1 L 3. 1L1.4 E 1 E 2			
1.24	Medicine of the late Middle Ages (history of the emergence of epidemics and medicine of the Moscow State) / independent work /	2	1	BEP -1 UC -5 UC -6	L1.1 L 1.2 L 1.3 L 2.1 L 3. 1L1.4 E 1 E 2			
<b>Section 2. History of medicine and Kyrgyzstan</b>								
2.1	Medicine of the New Time: Medical and Biological Disciplines / Lecture /	2	2	BEP -1 UC -5 UC -6	L1.1 L 1.2 L 1.3 L 2.1 L 3. 1L1.4 E 1 E 2			
2.2	Modern medicine: clinical disciplines, hygiene and social medicine/ Lecture /	2	2	BEP -1 UC -5 UC -6	L1.1 L 1.2 L 1.3 L 2.1 L 3. 1L1.4 E 1 E 2			
2.3	Medicine of the newest time of history (after 1918) / Lecture /	2	2	BEP -1 UC -5 UC -6	L1.1 L 1.2 L 1.3 L 2.1 L 3. 1L1.4 E 1 E 2			
2.4	History of medicine and health care in Kyrgyzstan/ Lecture /	2	2	BEP -1 UC -5 UC -6	L1.1 L 1.2 L 1.3 L 2.1 L 3. 1L1.4 E 1 E 2			
2.5	Medicine of the New Age: biomedical disciplines (the formation of biology, genetics and histology) / Pr /	2	2	BEP -1 UC -5 UC -6	L1.1 L 1.2 L 1.3 L 2.1 L 3. 1L1.4 E 1 E 2			
2.6	Medicine of the New Age: biomedical disciplines (the formation of microbiology and physiology) / Pr /	2	2	BEP -1 UC -5 UC -6	L1.1 L 1.2 L 1.3 L 2.1 L 3. 1L1.4 E 1 E 2			

2.7	Medicine of modern times: clinical disciplines / Pr /	2	2	BEP -1 UC - 5 UC -6	L1.1 L 1.2 L 1.3 L 2.1 L 3. 1L1.4 E 1 E 2	2		Viewing and discussion of video films on the topics: "Merits of S. P. Botkin"; "Merits of N.I. Pirogov".
2.8	Medicine of modern times: hygiene and public medicine / Pr /	2	2	BEP -1 UC - 5 UC -6	L1.1 L 1.2 L 1.3 L 2.1 L 3. 1L1.4 E 1 E 2			
2.9	Medicine of the Newest Time of History (Organization of the State Healthcare System) / Pr /	2	2	BEP -1 UC - 5 UC -6	L1.1 L 1.2 L 1.3 L 2.1 L 3. 1L1.4 E 1 E 2			
2.10	Medicine of the latest history (Outstanding achievements in medicine and international organization) / Pr /	2	2	BEP -1 UC - 5 UC -6	L1.1 L 1.2 L 1.3 L 2.1 L 3. 1L1.4 E 1 E 2			
2.11	History of medicine of Kyrgyzstan (traditional medicine) / Pr /	2	2	BEP -1 UC - 5 UC -6	L1.1 L 1.2 L 1.3 L 2.1 L 3. 1L1.4 E 1 E 2			
2.12	History of Medicine and Healthcare of Kyrgyzstan / Pr /	2	2	BEP -1 UC - 5 UC -6	L1.1 L 1.2 L 1.3 L 2.1 L 3. 1L1.4 E 1 E 2			
2.13	Medicine of the New Age: biomedical disciplines (the formation of biology, genetics and histology) / independent work /	2	1	BEP -1 UC - 5 UC -6	L1.1 L 1.2 L 1.3 L 2.1 L 3. 1L1.4 E 1 E 2			
2.14	Medicine of the New Age: biomedical disciplines (the formation of microbiology and physiology) / independent work /	2	1	BEP -1 UC - 5 UC -6	L1.1 L 1.2 L 1.3 L 2.1 L 3. 1L1.4 E 1 E 2			
2.15	Modern medicine: clinical disciplines/ independent work /	2	1	BEP -1 UC - 5 UC -6	L1.1 L 1.2 L 1.3 L 2.1 L 3. 1L1.4 E 1 E 2			
2.16	Medicine of modern times: hygiene and public medicine/ independent work /	2	1	BEP -1 UC - 5 UC -6	L1.1 L 1.2 L 1.3 L 2.1 L 3. 1L1.4 E 1 E 2			
2.17	Medicine of the latest time in history (Organization of the state health care system) / independent work /	2	1	BEP -1 UC - 5 UC -6	L1.1 L 1.2 L 1.3 L 2.1 L 3. 1L1.4 E 1 E 2			
2.18	Medicine of the latest history (Outstanding achievements in medicine and international organizations) / independent work /	2	1	BEP -1 UC - 5 UC -6	L1.1 L 1.2 L 1.3 L 2.1 L 3. 1L1.4 E 1 E 2			
2.19	History of medicine in Kyrgyzstan (traditional medicine) / independent work /	2	1	BEP -1 UC - 5 UC -6	L1.1 L 1.2 L 1.3 L 2.1 L 3. 1L1.4 E 1 E 2			

2.20	History of medicine and health care in Kyrgyzstan/ independent work /	2	1,7	BEP -1 UC - 5 UC -6	L1.1 L 1.2 L 1.3 L 2.1 L 3. 1L1.4 E 1 E 2			
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2.21	/ test /	2	0,3	BEP -1 UC - 5 UC -6	L1.1 L 1.2 L 1.3 L 2.1 L 3. 1L1.4 E 1 E 2			
2.22	/ graded credit /	2		BEP -1 UC - 5 UC -6				

## 5. EVALUATION FUND

### 5.1. Test questions and tasks

Questions to check the level of knowledge "KNOW":

1. definitions, concepts in the history of medicine;
2. periodization of the history of medicine;
3. the emergence of the rudiments of healing in primitive society;
4. the first religious ideas of primitive people;
5. features of healing in Sumer, Babylon, Assyria and Ancient Egypt;
6. features of healing in China, India, Tibet and Judea;
7. features of healing in Ancient Greece, Alexandria;
8. the contribution of Aristotle, Erasistratus and Herophilus to the development of medicine;
9. the contribution of Hippocrates to medicine;
10. features of healing in ancient Rome;
11. Galen's influence on the development of medicine;
12. features of healing in Byzantium, Arab caliphates;
13. contribution to the development of medicine Ar - Razi, Abu Ali Ibn Sina;
14. features of healing in Kievan Rus, Georgia and Armenia;
15. contribution to the development of medicine Mkhitar Heratsi, Kananeli;
16. characteristics of the Renaissance;
17. the emergence of scholasticism and galenism;
18. Renaissance medicine;
19. medicine of the Moscow state;
20. features of the development of medicine, outstanding natural science discoveries;
21. the formation of biology, genetics;
22. features of the development of medicine;
23. the formation of microbiology and physiology;
24. features of the development of medicine, outstanding medical workers;
25. the formation of therapy, surgery, dentistry, obstetrics and gynecology;
26. features of the development of medicine, outstanding medical workers;
27. the formation of infectious diseases, epidemiology and hygiene, public medicine;
28. features of the development of medicine in the early years of Soviet power;
29. outstanding achievements in medicine;
30. outstanding achievements of medicine, the role of international organizations;
31. peculiarities of the development of medicine in Kyrgyzstan before joining Russia, during the years of tsarist Russia, Soviet power, pre-war, war years and years of peaceful development;
32. development of a network of medical institutions;
33. outstanding medical workers of Kyrgyzstan;
34. heroes of the Kyrgyz Republic - doctors;
35. on the contribution of physicians to the development of science.

Tasks for checking the level of proficiency "TO BE ABLE and OWN":

1. to analyze the development of medicine in the era of primitive society (formation, flourishing and decay);
2. to analyze the development of medicine in the era of slave society;
3. to analyze the development of medicine in the ancient world (Ancient Greece, Alexandria, Ancient Rome);
4. to analyze the development of medicine in the era of the early and advanced Middle Ages;
5. to analyze the development of medicine in the late Middle Ages (Renaissance);
6. to analyze the development of biology and medicine in the modern era;
7. to analyze the development of the clinical direction of medicine in the modern era;
8. to analyze the development of public medicine in the modern era;
9. to analyze the development of medicine in the modern era;
10. to analyze the outstanding discoveries of modern medicine;
11. to analyze the development of medicine in Kyrgyzstan before and after joining Russia;
12. to analyze the development of medicine in Kyrgyzstan during the years of Soviet power, an autonomous region, an autonomous republic, in the pre-war years, the years of the Second World War, after the Second World War and the years of peaceful construction.

### 5.2. Course work topics (projects)

The discipline does not provide for the implementation of this work.

### 5.3. Appraisal Fund

Abstract. Presentations. Subject:

1. Historical sources about healing in Ancient Egypt.
2. Ayurveda is a system of traditional Ayurveda medicine.
3. Philosophical foundations of Chinese traditional medicine.
4. Development history and physiological foundations of acupuncture.
5. Medicine and medicine of ancient Greece.
6. Hippocrates and "Hippocrates collection".
7. Medicine of Ancient Rome.
8. Medicine in the Caliphate.
9. Abu Ali ibn Sina - scientist-encyclopedist of the medieval East.
10. "Canon of Medicine" Ibn Sina in the history of medicine.
11. Medicine and medicine in the Old Russian state.
12. Medicine in Western Europe during the classical Middle Ages.
13. Formation of medical education in Western Europe.
14. Medicine of the Renaissance.
15. Andrsas Vesalius and the beginning of scientific anatomy.
16. Medicine of pre-Columbian civilizations of America.
17. Medicine in the Moscow State.
18. Reform of Peter I in the field of education and medicine.
19. Formation and development of medical education in Russia.
20. History of anatomy.
21. Formation and development of anatomy in Russia.
22. History of pathological anatomy and pathological physiology.
23. Formation and development of microbiology.
24. Louis Pasteur in the history of medicine.
25. Formation and development of physiology.
26. I.M. Sechenov is the father of Russian physiology.
27. I.P. Pavlov is "the first physiologist of the world".
28. History of genetics.
29. Development of methods of patient examination.
30. The history of the development of the doctrine of internal medicine.
31. History of anesthesia.
32. Life and work of N.I. Pirogov.
33. The birth of antiseptics and asepsis.
34. History of blood transfusion.
35. The history of obstetrics, obstetrics and gynecology.
36. Formation and development of pediatrics in Russia.
37. The history of nursing in Russia.
38. The history of the doctrine of infectious diseases.
39. Russian public medicine.
40. History of zemstvo medicine in Russia.
41. Formation and development of experimental hygiene.
42. History of dentistry and dentistry.
43. History of military medicine.
44. History of psychiatry.
45. History of ophthalmology.
46. Experiences of doctors on themselves.
47. Not doctors - in medicine.
48. Formation and development of the doctrine of organ and tissue transplantation.
49. International Red Cross: history of formation and activities.
50. History of the World Health Organization.
51. Nobel Prizes in Physiology or Medicine.

Test:

Test work No. 1 "History of healing"

1. Medicine during the heyday of primitive society.
2. The development of medicine in Ancient Egypt.
3. Sources of medical knowledge in Byzantium.
4. Medicine during the period of decay of primitive society.
5. Sources of studying medicine in Ancient Egypt.
6. Monastic medicine of Kievan Rus.
7. Medicine in primitive communities
8. Religious views and healing in Ancient Egypt.
9. Formation of anatomy as a science: Andreas Vesalius.
10. Features of the development of medicine in Ancient Greece.
11. Medicine in Sumer.
12. Sanitary facilities in Byzantium.
13. Medical schools of Ancient Greece.
14. Medicine in Babylon and Assyria.

15. Outstanding physician of Georgia: Kananeli.
16. The development of medicine in Alexandria.
17. Laws of King Hammurabi.
18. Physiology as a Science: William Harvey.
19. Stages of development of medicine in ancient India.
20. Development of medicine and medicine during the empire of Ancient Rome.
21. Outstanding philosopher, physician and chemist of the early Middle Ages: Ar-Razi (Razes).
22. Sources of the study of medicine in ancient India.
23. Medicine of the period of the Republic of Ancient Rome.
24. Outstanding representative of medicine in Armenia: Mkhitar Heratsi.
25. Medicine during the decay of primitive society.
26. Military medicine in ancient Rome.
27. Medieval scholasticism and galenism.
28. Medical education during the period of the Empire of Ancient Rome.
29. Methods of healing in ancient China.
30. Canon of Medicine.
31. Medicine of Ancient China.
32. Medicine of Armenia.
33. Mythology and healing in Ancient Egypt.
34. Medicine in Tibet.
35. The spread of epidemics in the Moscow state.
36. Development of medicine and medicine in Judea.
37. Medicine of Kievan Rus.
38. Talmudic medicine in Ancient Judea.
39. Development of science in the Arab Caliphate.
40. Medicine in the Vedic period.
41. Temple medicine in ancient Greece.
42. Pharmacy in the Moscow state.
43. Formation of anatomy as a science: Leonardo da Vinci.
44. Sources of study of medicine in Georgia.
45. History of medicine: definition, purpose.
46. Periodization of Ancient India.
47. Medicine of the Moscow State.
48. History of medicine: objectives, principles.
49. The development of medicine in ancient India.
50. Stages of the history of medicine and medicine in Russia.
51. History of medicine: periodization, sources of study.
52. The concept of health and disease in ancient China.
53. Contribution to the development of the physiology of Francis Bacon.
54. Religious ideas during the heyday of primitive society.
55. Medicine of Ancient Greece.
56. The founder of iatrochemistry in Western Europe: Theophrastus Bombast von Hohenheim (Paracelsus).
57. Priestly medicine in ancient Rome.
58. Traditional medicine of the Moscow state.
59. Medicine in Babylon and Assyria: healers, interpretation of the causes of the disease.
60. Development of surgery in Western Europe: Ambroise Paré.

#### Test number 2 "History of medicine and Kyrgyzstan"

1. Development of biology of modern times: features of the development of medicine (outstanding natural science discoveries).
2. Founders of the Russian anatomical school.
3. The first institutions of the state health care system of the Soviet period.
4. Contribution to the development of biology and genetics: K. Linnaeus, J. Lamarck.
5. Development and teaching of anatomy in Russia.
6. Medical institutions of Kyrgyzstan, opened during the years of tsarist Russia.
7. Contribution to the development of biology and genetics: Charles Darwin.
8. Anatomical school, contribution of F. Ruysch.
9. List the basic principles of Soviet health care.
10. The development of modern genetics: G. Mendel and T. Morgan.
11. Formation of pathological anatomy: the macroscopic period (Giovanni Batista Morgagni, François Xavier Bichat).
12. Tasks of health care in Kyrgyzstan in the early years of Soviet power.
13. Formation of pathological anatomy: microscopic period (Karl Rokitansky, Rudolf Virchow).
14. Formation of therapy in Russia: M. Ya. Mudrov, SP Botkin.
15. The first decrees on the prevention of infectious diseases in the early years of Soviet Power.
16. Health care during the existence of Kyrgyzstan as an autonomous republic within the RSFSR (1927–1936).
17. Formation of histology, embryology: pre-microscopic and microscopic period.
18. Development of pathology in Russia.
19. The main achievements of medicine of the twentieth century.

20. Development of histology in Western Europe.
21. The development of microbiology: an empirical period (Edward Jenner).
22. Health care of Kyrgyzstan during the Great Patriotic War.
23. Development of histology in Russia.
24. Development of asepsis and antiseptics: Ignaz Semmelweis.
25. World Health Organization.
26. Development of embryology: Marcello Malpighi.
27. Development of asepsis and antiseptics: Joseph Lister.
28. Health care of Kyrgyzstan in the post-war years.
29. Development of microbiology: experimental period (Louis Pasteur).
30. The founders of community medicine in Western Europe: John Graunt, William Petty.
31. Leading surgeons of modern times and their services.
32. Development of microbiology: II Mechnikov, Robert Koch.
33. Founder of occupational pathology and occupational health: Bernardino Ramazzini.
34. Health care of Kyrgyzstan in the years of peaceful development (1956-1991).
35. The emergence of physiology in Western Europe: Albrecht Haller.
36. The founder of hygiene in Western Europe: M. Pettenkofer.
37. The first laws on health protection during the years of Kyrgyzstan's sovereignty.
38. Formation of physiology in Russia: I. M. Sechenov, I. P. Pavlov.
39. The founder of experimental hygiene in Russia: A.P. Dobroslavin.
40. Participation of the population in the health care of the Soviet period.
41. Formation of surgery in Russia.
42. The founder of experimental hygiene in Russia: F.F. Erisman.
43. The network of hospitals during the years of formation of the Karakirgiz Autonomous Region within the RSFSR (1924-1926)
44. The emergence of surgery in Western Europe.
45. The rise of histology, embryology and botany: Antonia Van Levinguck.
46. Zemsky medicine in Russia.
47. The development of dentistry in Western Europe: Pierre Fauchard.
48. Reforming health care in the Kyrgyz Republic.
49. The founders of the Russian anatomical school.
50. Cellular theory of the structure of organisms: Matthias Schleiden, Theodor Schwann.
51. Development of anatomy in Russia.
52. The founder of the doctrine of the cellular structure: Jan Evangelist Purkinje.
53. Development of biology: Carl Linnaeus.
54. Development of dentistry in Russia: A.M. Sobolev, F.I. Vazhinsky.
55. Issues of health protection in the Constitution of the Kyrgyz Republic.
56. Development of infectious diseases, epidemiology: DS Samoilovich.
57. International Committee of the Red Cross.
58. The state nature of Soviet health care.
59. List the basic principles of Soviet health care.
60. Public medicine in Russia.
61. Representatives of Kyrgyz traditional medicine.
62. The role of N.A. Semashko and Z.P. Solovyov in the organization of health care in the Soviet period.

Test (list of test questions in Appendix 1)

#### 5.4. List of types of appraisal tools

Essay with presentation with public defense (optional) Examination  
Frontal poll as a test  
(Grading scales for all types of assessment tools in Appendix 2)

### 6. EDUCATIONAL, METHODOLOGICAL AND INFORMATION SUPPORT OF THE DISCIPLINE (MODULE)

#### 6.1. Recommended reading

##### 6.1.1. Main literature

	Authors, compilers	Title	Publisher, year
L1.1	Bolbachan O.A., Rozieva R.S., Koshmuratov A.G.	History of Medicine: Study Guide	Bishkek: KRSU 2016
L1.2	Ivanov A.G.	History of Medicine. : textbook	Tver: Tver State Medical Academy 2012.
L1.3	K.V. Kashnikov	History of Medicine and Pharmacy: A Study Guide	Saratov: IP Er Media 2012

L1.4	Kasiev N.K., Bolbachan O.A., Ibraimova D.D., Aytalieva R.R.	History of Medicine: Study Guide	Bishkek: KRSU 2020
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<b>6.1.2. Additional literature</b>			
	Authors, compilers	Title	Publisher, year
L2.1	Bolbachan O.A., Rozieva R.S., Koshmuratov A.G.	History of Medicine: Study Guide	Bishkek: Publishing house of KRSU 2013
<b>6.1.3. Methodical developments</b>			
	Authors, compilers	Title	Publisher, year
L3.1	Bolbachan O.A.	Methodological developments on the subject of history of medicine: methodological developments	Bishkek, Department of Public Health and Health Care 2014
<b>6.2. List of resources of the information and telecommunication network "Internet"</b>			
E1	history of medicine		bibliotekar.ru/423/
E2	KRSU library		http://lib.krsu.edu.kg/
<b>6.3. List of information and educational technologies</b>			
<b>6.3.1 Competence-based educational technologies</b>			
6.3.1.1	Traditional educational technologies - lectures, workshops, consultations focused on the communication of knowledge transferred to students in a finished form.		
6.3.1.2	Innovative educational technologies - classes in an interactive form that form systems thinking and the ability to generate ideas when solving various problems. These include electronic lecture texts with presentations and video screenings.		
6.3.1.3	Information educational technologies - the student's independent use of computer technology and Internet resources for the implementation of practical tasks and independent work.		
<b>6.3.2 List of information reference systems and software</b>			
6.3.2.1	1. Electronic library system Student advisor <a href="http://www.studmedlib.ru">http://www.studmedlib.ru</a>		
6.3.2.2	2. Electronic library system FESMU <a href="http://www.fesmu.ru/elib/">http://www.fesmu.ru/elib/</a>		
6.3.2.3	3. History of medicine <a href="http://www.historymed.ru">http://www.historymed.ru</a>		

<b>7. MATERIAL AND TECHNICAL SUPPORT OF THE DISCIPLINE (MODULE)</b>	
7.1	The department is located on the territory of the National Center of Oncology - the "Conference Hall" building at the address: Bishkek, st. Akhunbaeva 92a.
7.2	Lecture hall for 220 seats.
7.3	Auditorium No. 1 for 20 seats, for practical training, independent work and viewing multimedia, video materials, visual aids - stands, blackboard.
7.4	Auditorium No. 2 for 30 seats, for practical exercises, independent work and viewing multimedia, video materials, visual aids - stands, blackboard.
7.5	Auditorium No. 3 (reading room) for 28 seats, for practical exercises, independent work and viewing multimedia, video materials, visual aids - stands, blackboard.
7.6	Information sources: - library - 88 copies; - electronic library - 11 copies.
7.7	Computer.
7.8	Projector.
7.9	A printer.
7.10	Scanner.
7.11	Notebook.
7.12	Screen.

<b>8. METHODOLOGICAL INSTRUCTIONS FOR STUDENTS ON LEARNING THE DISCIPLINE (MODULE)</b>
Technological map of the discipline (Appendix 3).
Test number 1 includes the following topics: "Introduction to the history of medicine, Medicine in a primitive society"; "Medicine in the countries of the ancient East"; "Medicine and medicine in the countries of the ancient Mediterranean (in the ancient world)"; "Medicine of the periods of the early (V-X centuries) and developed (XI-XV centuries) Middle Ages"; "Medicine of the late Middle Ages (XV-XVIII centuries)".
Examination number 2 includes the following topics: "Medicine of the New Age: biomedical disciplines"; "Medicine of the New Age: Clinical Disciplines, Hygiene and Social Medicine"; "Medicine of the newest time of history (after 1918)"; "History of Medicine and Healthcare of Kyrgyzstan".

The procedure for preparing an abstract with a presentation:

The abstract is drawn up according to the requirements of the department (5-7 sheets of the computer text Times News Roman, the title page with the name of the higher educational institution, the name of the department, the full name of the teacher, the title of the topic, the full name of the student, font 14, spacing single, margins: top, bottom, right 2 cm, left 3 cm).

Presentation procedure:

The first slide should contain the title of the presentation and the names of its authors, the name of the discipline, course, group. The second slide is the outline of the presentation. The presentation must necessarily end with the conclusions obtained during the work. The last slide lists the sources used (including Internet resources). In slides with text, it is recommended to formulate abstracts more concisely and break them down into separate paragraphs. Slides shouldn't be cluttered. You should use at least 30 fonts. Presentation must be in Microsoft Power

Point, number 8 - 12 slides for 4-10 min. And a report in writing. Requirements for design: use of a single design style; using no more than three colors on one slide; expediency of using animation effects.

Independent student work in the study of the discipline.

To understand the material and to master it qualitatively, it is recommended:

- when preparing for a practical lesson, the student needs to familiarize himself with the methodological development for the upcoming lesson;
- to repeat the necessary material for studying the history of medicine;
- in the lecture materials, main and additional literature, find answers to questions for self-preparation.

Recommendations for the use of materials of the work program of disciplines (RAP):

- the materials of the RPD contain the development of basic concepts and theories, the life and work of prominent doctors and medical scientists, the scientific achievements of schools, the history of the most important discoveries;
- when studying the subject, materials are given that are systematized in accordance with the periodization of world history adopted in modern historical science;
- - the study of the history of medicine is based on the compilation of abstract topics by students with subsequent discussion in the group.

**TESTS ON THE HISTORY OF MEDICINE TO CONTROL KNOWLEDGE**

Find the correct answer from the three suggested

Test 1. Definition of medicine.

- a) Science, studying the development of society and its diseases throughout the history of mankind
- b) Science, studying the pattern of development and history of healing.
- c) The system of scientific knowledge and practical activities, the purpose of which is to strengthen and preserve health, prolong human life, prevent and treat human diseases.

Test 2. Merit W. Garvey in the development of physiology.

- a) Created a study on the structure of the human body, created a classification of human diseases.
- b) Mathematically calculated and experimentally substantiated the theory of blood circulation, discovered a small and a large circle of blood circulation, veins, arteries (except capillaries).
- c) Has opened capillaries and a small circle of blood circulation.

Test 3. The purpose of studying the subject "History of Medicine."

- a) The goal is to put the past at the service of the present and see the future development of the medicine of the future.
- b) Purpose - to study the patterns of development and the history of healing.
- c) Purpose - the study of medicine throughout human history.

Test 4. Merit D. Frakastoro in the study of infectious diseases.

- a) Suggested a special mixture for the treatment of wounds.
- b) Described the human skeleton, muscles, introduced the concept of "humoral learning".
- c) He wrote the work "On Contagia, Contagious Diseases and Treatment," outlined the basics of the theory of contagium.

Test 5. Periodization of the history of medicine.

- a) The history of the Primitive society, the Ancient world, the Middle Ages, the New time, the Newest time.
- b) History of the Ancient world, New time, Newest time.
- c) The history of the Primitive society, the Middle Ages, New time.

Test 6. Pharmaceutical order in Russia, its activities.

- a) Pharmaceutical order engaged in the study of medicine.
- b) The court institution for the management of medical and pharmaceutical affairs.
- c) Pharmaceutical order - an institution for the preparation of medicinal raw materials.

Test 7. Healing in the heyday of primitive society.

- a) Application of limb amputation and improvement of obstetric aid.
- b) The absence of burials and the use of bronze medical instruments for surgical operations.
- c) The use of physical methods of treatment (massage, washing the intestines, etc.), the use of intoxicating and narcotic natural remedies for anesthesia, bloodletting.

Test 8. The year of the opening of the medical school in Moscow State.

- a) In 1581
- b) In 1684
- c) In 1654

Test 9. The role of women in the application of methods of healing in primitive society.

- a) The keeper of the fire (maintaining the fire), collecting and harvesting the plants from which the medicinal drugs were made, provided assistance at childbirth.
- b) Made medical instruments of copper, bronze, conducted religious rites.
- c) Engaged in hunting, fishing, conducted amputation of limbs.

Test 10. Methods of combating epidemics in Russia.

- a) Killed patients, treated with disinfectants, burned houses and streets.
- b) Folk remedies were used: fumigation with smoke, burning, the dead were buried outside the city limits, and outposts were organized on the roads leading to the cities.
- c) The use of drugs and the wearing of special clothing.

Test 11. Definition of totemism.

- a) Belief in souls, spirits and the universal spiritualization of nature.
- b) This is a belief in the supernatural properties of inanimate objects.
- c) It is the belief of a person in the existence of a close kinship between his race and a certain type of animal or plant.

Test 12. C. Darwin - the founder of evolutionary theory.

- a) The founder of the evolutionary theory of "The Origin of Species by Natural Selection" (1859).
- b) I studied the method of preparation of drugs.
- c) Considered the driving force of evolution - the cellular theory, the law of conservation and transformation of energy.

Test 13. Cuneiform table in Sumer.

- a) Carved the laws of King Hammurabi.
- b) Contained 15 prescriptions of medicines; a personal seal of the doctor was depicted depicting medical instruments and medicine containers.
- c) Written information about the structure of the human body.

Test 14. The beginning of anatomical research in Russia.

- a) Associated with the activities of Louis Pasteur in 1881
- b) Associated with the era of Peter 1 (1682-1725).
- c) Associated with the activities of Lomonosov in 1855

Test 15. The laws of King Hammurabi.

- a) The legal aspects of the doctor's activities are examined (the doctor's remuneration and responsibility are strictly determined by the patient's financial status)
- b) Data on the structure of the human body is written on papyrus.
- c) Recipes of medicines are written on the tables.

Test 16. The founder of histology Marcello Malpighi.

- a) He opened the circles of blood circulation, veins, arteries.
- b) He opened the capillaries in 1661, described the shaped elements of blood in 1665
- c) Created a classification of diseases and human tissues.

Test 17. Sources of study medicine in ancient Egypt.

- a) Cuneiform tables.
- b) Basalt pillar with the laws of King Hammurabi.
- c) Papyrus Smith, Ebers, hermetic books.

Test 18. The merits of Edward Jenner.

- a) Conducted an experiment on the method of vaccination against smallpox.
- b) Created a theory of blood circulation.
- c) Created a cell theory.

Test 19. The concepts of two principles (yang, yin) in ancient China.

- a) They divided all diseases into three groups (fire, metal, water).
- b) "Yang" is a passive principle, "yin" - an active principle is associated with a reduced function of the body.
- c) The male beginning "yang" is active; the feminine "yin" is passive; division of diseases into 2 groups of yang and yin (treatment of the opposite is opposite).

Test 20. Robert Koch, his merits.

- a) Established a pathogen of rabies, smallpox.
- b) Nobel laureate, discovered the causative agent of tuberculosis, outlined the concept of the pathological tuberculosis process.
- c) Created a theory of immunity on the immunity of the organism.

Test 21. The use of Zhen Jiu therapy in ancient China.

- a) Acupuncture and cauterization.
- b) Application of plant origin and magic spells.
- c) The use of animal products and the method of pulsodiagnostics.

Test 22. Merit Sechenov I.M.

- a) Created the doctrine of higher nervous activity.
- b) The theory of immunity, the immunity of the organism.
- c) He studied the physiology of respiration, the dissolution of gases in liquids and the exchange of energy, put forward the position of the material unity of the world, discovered the reflex nature of higher nervous activity.

Test 23. The activities of the ancient Indian healer Sushruta.

- a) Considered the legal aspects of healing, prepared medicines.
- b) Wrote the full edition of "Ayurveda", performed plastic surgery, amputations.
- c) Cauterized, acupuncture and pulsodiagnostics.

Test 24. G. Burhaave is the founder of clinical teaching in Western Europe.

- a) Professor of Moscow University, the founder of the doctrine of immunity and contagious diseases.
- b) Professor of Leiden University, taught the clinic and general pathology, opposed scholasticism in medicine, one of the first to use the physical and instrumental methods of research of the patient.
- c) Professor of pathologies, innovator of humoral training.

Test 25. The role of Talmudists in the treatment of diseases in Judea.

- a) Representatives of secular medicine, treated with conspiracies.
- b) Doctors - artisans, treated with acupuncture and cauterization.
- c) All diseases were interpreted as punishment for sins, treatment was accompanied by spells and prayers.

Test 26. Year of the organization of hospital schools in Russia.

- a) In 1581 in the territory of the Kremlin.
- b) In 1707 in Moscow (for 50 students) at the General Hospital.

c) In 1881

Test 27. Philosophy of the Kroton School of Medicine.

- a) Identification of 4 bodily juices (blood, mucus, bile, black and light) and their effect on health.
- b) The opposite is cured by the opposite.
- c) The heart is the main organ of consciousness.

Test 28. M. Mudrov - the founder of the therapeutic school in Russia.

- a) He offered an individual approach to patients (to treat not the disease, but the patient). Entered the writing of the medical history (collected archive).
- b) Organized the first clinical laboratory in Russia, an innovator of experimental direction.
- c) Described the clinic of hepatitis, heart disease.

Test 29. Basics of the Kosovo School of Medicine.

- a) Signs of disease and diagnosis depending on changes in bodily juices.
- b) Identification of bodily juices with diseases.
- c) Considered the body in close connection with the surrounding nature, developed the principle of observation of treatment at the patient's bedside, developed the foundations of medical ethics.

Test 30. Founders of surgery in Western Europe.

- a) Pierre Fochard, Dobroslavin contributed to the development of military field surgery.
- b) Pirogov, Botkin - applied ether anesthesia for pain relief.
- c) Jean-Louis Petit - the first director of the Surgical Academy, Jean-Larrey - the founder of field surgery, created a "flying field hospital" to transport the wounded.

Test 31. Hippocrates - the ancestor of ancient Greek medicine.

- a) Examined the eye, measured the duodenum 12.
- b) Developed a doctrine on the treatment of fractures (hood, tires), developed a doctrine on human temperament, proposed the opposite treatment.
- c) Described the membranes of the brain, the pulse.

Test 32. Founders of dentistry in Western Europe and Russia.

- a) Pierre Foshar, Sobolev A.M., F.I. Vazhinsky.
- b) I.I. Mechnikov, Robert Koch, Louis Pasteur.
- c) N.I. Pirogov, Louis Pasteur, Ambroise Pare.

Test 33. Features of the development of medicine of ancient Rome, the royal period.

- a) Traditional medicine (treatment with herbs and magic plots). Priestly medicine (engaged in fortune-telling on the insides of sacrificial animals).
- b) Secular, folk - treated with plots and spells.
- c) Spellcasters Allah and Ashipu, secular medicine.

Test 34. M. Maksimovich-Ambodik - the founder of obstetrics.

- a) Creator of the scientific school of pediatrics.
- b) He wrote the work "The Art of Povivaniya, or the Science of the Babis Business" - the first manual on obstetrics and pediatrics.
- c) The creator of the theory of contagion and contagious diseases.

Test 35. Medicine of the Roman Empire.

- a) Priestly medicine, the emergence of doctors from ancient Egypt.
- b) There was a law "12 tables", there were doctors professionals.

c) The army created hospitals - Valeotudinarii. There were no civilian hospitals in Rome. At the court of the emperor - "court arhiatry."

Test 36. Ramazzini's contribution to the development of medicine.

- a) He studied the disease artisans, wrote the work "On the diseases of artisans."
- b) The founder of military hygiene.
- c) The founder of social medicine.

Test 37. Claudius Galen - an outstanding physician of ancient Rome.

- a) Developed a theory of fractures.
- b) Sanitary facilities.
- c) Anatomized animals (monkeys, pigs, dogs); The data obtained at the autopsy, transferred to the human body.

Test 38. The founder of hygiene - M. Pettenkofer.

- a) Studied the spread of the plague.
- b) Introduced an experimental research method, developed methods of hygienic assessment of air, soil, clothing.
- c) He studied the diseases of artisans.

Test 39. Organization of hospitals in Byzantium.

- a) Construction of civilian hospitals in the Arab caliphates.
- b) Construction of hospitals at monasteries (shelter for beggars, civilians).
- c) Construction of Valetudinarians in Rome.

Test 40. Nobel Prize Winners of the New Time.

- a) I.I. Mechnikov, R. Koch, P. Ehrlich.
- b) N. Dobroslavin, L. Pasteur.
- c) I.I. Sechenov, Pettenkofer.

Test 41. Contribution to the development of medicine Ar - Razi.

- a) Wrote a treatise on Osp and Measles and the Comprehensive Book on Medicine, Medical Book, the founder of hospitals in Baghdad.
- b) Wrote the theory of fractures, temperament, wrote the Canon of medical science.
- c) He has created 125 works "On Anatomy", "On Medicine", "Comments on the Labor of Hippocrates".

Test 42. The role of N.A. Semashko in the organization of the health system of the RSFSR.

- a) He headed the military sanitary institution, the medical-sanitary department.
- b) First People's Commissar for Health of the USSR, chairman of the Red Cross Society.
- c) First People's Commissar for Health, in 1922 headed the Department of Social Hygiene at Moscow State University.

Test 43. Contribution to the development of medicine Avicenna.

- a) Posted work "On the structure of the human body."
- b) I wrote a work in 5 volumes of the "Canon of Medicine", about anatomy, pathology, physiology, surgery, etc.
- c) He wrote the work "On Medicines".

Test 44. The state character of the Soviet public health.

- a) Preventive direction, public participation in health care.

- b) Centralization of management; government funding; state planning; free, public medical care for the entire population.
- c) The unity of medical science and practice.

Test 45. Contribution to the development of medicine by scientists of Armenia and Georgia.

- a) They wrote a doctrine about temperament, fractures, ethics.
- b) They wrote about drugs, about "Measles, smallpox".
- c) MkhitarTiraci wrote the book "Consolation at a fever", Kananeli, wrote an essay "The Incomparable Karabadin".

Test 46. Public participation in the work of health authorities of the Soviet period.

- a) Participation in the promotion of medical knowledge.
- b) Sanitary courts, sanitary police, sanitary theater, the creation of commissions for the improvement of labor and living conditions of the population.
- c) Establishment of research institutes.

Test 47. Definition of scholasticism and galenism.

- a) Studies the effect of the environment on human health.
- b) Studies the interaction of man and nature, the influence of astrology on the human body.
- c) Scholasticism - a typical religious philosophy based on church dogma, Galenism is a distorted, one-sided interpretation of the teachings of Galen.

Test 48. Who discovered penicillin

- a) A. Calmet in 1921
- b) A. Fleming. 1929
- c) G. Domagkom. (1934-1935).

Test 49. Merit A. Vesalius in the formation of anatomy.

- a) He was convinced that Galen's views on the structure of the human body were erroneous, corrected more than 200 errors in his works, systematized anatomy as a science.
- b) Described the drugs, created the first hospital and wrote the book "Publicly available drugs."
- c) He described human diseases, the effect of astrology on health.

Test 50. The scientist who created the artificial model of the heart.

- a) Michael de Becky, in 1965
- b) Demikhov V.P., in 1951
- c) K. Bernard, in 1967

Test 51. Definition of the history of medicine.

- a) The system of scientific knowledge and practical activities, the purpose of which is to strengthen and preserve health, prolong life of people, prevent and treat human diseases.
- b) Studies the patterns of development, the history of healing and medical activities of the peoples of the world throughout the history of mankind.
- c) The learning process, the formation of society.

Test 52. The contribution of A. Pare to the development of surgery.

- a) He wrote the work "A Method for Treating Gunshot Wounds", created a study on the treatment of gunshot wounds, improved the technique of many surgical operations.
- b) In the Arab caliphs he created the first hospital and the imperial school for the training of surgeons.
- c) Created a family medical school and developed surgery.

Test 53. Sources of study of the history of medicine.

- a) Sources of study are only archaeological excavations.
- b) Sources of study are only data from paleopathology.
- c) Data of archeology, paleontology, printed works of doctors, historians, government and military leaders, philosophers, film-photo documents.

Test 54. The development of pharmacy in Western Europe.

- a) In Europe, the first pharmacies appeared in the XI century. in the Spanish cities of Toledo and Cordova.
- b) The first pharmacy appears in 754, in Paris.
- c) The first pharmacy appeared in 1581, in Moscow.

Test 55. The rudiments of healing among the most ancient people.

- a) Possession of surgical treatment.
- b) Known toxic effects of poisons.
- c) The rudiments of hygienic skills, burning caves.

Test 56. The emergence of the first pharmacies in Moscow State.

- a) The first pharmacy appeared in 1581
- b) The first pharmacy originated in 754.
- c) The first pharmacy appeared in 1680

Test 57. Healing in the period of the decomposition of the primitive society.

- a) The rudiments of hygienic knowledge, burning caves.
- b) The obstetric aid was improved, tools for healing were made of metal (copper, bronze, iron), medical aid to the wounded, a circumcision ritual was performed.
- c) The absence of burials, the use of bloodletting.

Test 58. Generalization of knowledge of traditional medicine in Moscow State.

- a) Written herbalists ("Alexandria", "Vertograd") and healers.
- b) "Hippocrats Collection", the works of Vesalius.
- c) Written "Synapses" for the manufacture of medicines.

Test 59. Definition of fetishism.

- a) It is the belief of a person in the existence of a close kinship between his race and a certain type of animal or plant.
- b) This is a belief in the supernatural properties of inanimate objects.
- c) Belief in souls, spirits and the universal spiritualization of nature.

Test 60. The great discoveries of the natural sciences of the 18-19 centuries.

- a) The theory of the cellular structure of living organisms (Schwann, Schleiden - 1838-1839), the law of conservation and transformation of energy (Lavoisier, Lomonosov - 1756-1774), the evolutionary theory of Charles Darwin (1859), the law of heredity and variability G. Mendel (1865).
- b) The doctrine of fractures, temperament, the discovery of penicillin and streptococci.
- c) The doctrine of smallpox, bark, blood circulation and human temperament.

Test 61. Definition of animism.

- a) This is a belief in the supernatural properties of inanimate objects.
- b) It is the belief of a person in the existence of a close kinship between his race and a certain type of animal or plant.
- c) Belief in souls, spirits and the universal spiritualization of nature.

Test 62. The main merits of Frederick Ruysch in the development of anatomy.

- a) He considered heredity and variability as the main factors of evolution, dissecting animals.
- b) Created a cellular theory, considered the center of blood circulation the liver.
- c) He perfectly mastered the technique of preparing anatomical preparations, invented a method of embalming corpses, created the first anatomical museum.

Test 63. The main directions of healing in Babylon and Assyria.

- a) Directions "yang" and "yin" - the basis of treatment.
- b) Priestly medicine (spellcasters - Ashipu). Folk, empirical medicine (healers - Alu).
- c) secular medicine, family medicine.

Test 64. Founders of the Russian anatomical school.

- a) Malpighi, Ruysch, studied the structure of the human body.
- b) Lomonosov, Lavoisier - studied the blood circulation.
- c) Schepin K. - he taught medicine in Russian, Zagorsky P. A. - approved Russian terminology instead of Latin.

Test 65. Features of healing in ancient Egypt.

- a) Craftsmen-healers, representatives of family schools of physicians, priestly.
- b) Traditional medicine - Alla exorcists.
- c) Priestly medicine - spellcasters Ashipu.

Test 66. The founders of pathology in Western Europe.

- a) Shchepin, Vesalius, Ruysch.
- b) Malpighi, Polunin, Shchepin, Harvey.
- c) Morgagni, Xavier Bisha, Rokitansky, Virkhov.

Test 67. The development of healing in ancient China.

- a) Craftsmen - healers.
- b) Alternative medicine, embalming of corpses, secular medicine.
- c) Priestly medicine using spells.

Test 68. Activities Louis Pasteur.

- a) He studied the role of microorganisms in the process of fermentation, decay, the occurrence of the disease, created a vaccine against anthrax and rabies.
- b) Created a theory of heredity and variability.
- c) Created a cell theory, the study of contagion and contagious diseases.

Test 69. Ancient Chinese philosophy about primary elements.

- a) Each element in nature is associated with "yang" and "yin."
- b) Each element in nature is associated with a cosmic force that acts on the body.
- c) All processes in the body - the relationship of "primary elements": fire, earth, water, wood, metal. Man contains these 5 elements

Test 70. I.I. Swordsmen, the main services.

- a) Discovered the causative agent of cholera, anthrax.
- b) Nobel laureate for the theory of immunity, created the phagocytic theory, resistance to infectious diseases.
- c) He discovered the causative agent of tuberculosis, anthrax, rabies.

Test 71. The art of healing "Ayurveda".

- a) The combination of priestly and traditional medicine - Ancient India.
- b) Priestly medicine, medicine of Babylon and Assyria.
- c) Secular medicine, Chinese medicine.

Test 72. Pavlov I.P. - the main merits.

- a) Established a pathogen of rabies, cholera.
- b) Created the phagocytic theory, the theory of immunity.
- c) The Nobel Prize winner (1904), the creator of the theory of higher nervous activity, substantiated the principle of "nervism." Revealed reflexes: conditional and unconditional.

Test 73. Features of healing in Tibet.

- a) The development of surgery and embalming of corpses.
- b) Had a clear idea of the therapeutic doses and the strength of the drugs.
- c) The use of cauterization, acupuncture.

Test 74. The first methods of clinical examination of patients.

- a) Thermometry, percussion, auscultation.
- b) Aseptic, antiseptic, acupuncture.
- c) Pulse diagnostics, patient questioning.

Test 75. Stages of development of medicine of ancient Greece.

- a) Croton, Cnidus, Sicilian stages.
- b) The classical period, the ancient kingdom, the new kingdom.
- c) Crete - Mycenaean, pre-police, classical periods.

Test 76. The contribution of M.V. Lomonosov in the development of medicine.

- a) Nobel laureate, founder of immunology.
- b) He offered an individual approach to the patient, organized a clinical laboratory, a scientific school of therapy.
- c) He laid the foundations of the scientific view of nature, matter and motion, emphasized the great importance of chemistry for medicine, the founder of social medicine.

Test 77. Knid Medical School and its directions.

- a) Development of the foundations of medical ethics.
- b) The foundations of the humoral teaching are laid, according to which health is a favorable mixture of four body fluids, and their unfavorable mixture is the cause of diseases.
- c) The heart is the main organ of consciousness.

Test 78. Merit S. Botkin.

- a) Introduced writing a history of the disease, studied the disease of the brain.
- b) The founder of surgery, applied ether anesthesia.
- c) The founder of the clinical experimental direction, organized a clinical laboratory, described the clinic of many heart diseases.

Test 79. Sicilian School of Medicine, its philosophy.

- a) The heart is the main organ of consciousness.
- b) Observation at the bedside.
- c) The essence of all things is fire, water, air, earth - they are unchangeable and unknowable. Diseases occur due to their imbalance.

Test 80. Pirogov N. I. - the founder of surgery in Russia.

- a) Developed a theory on higher nervous activity and blood circulation.

- b) Gave a scientific justification for the use of ether anesthesia, and attracted women to care for those wounded during the hostilities (sisters of mercy).
- c) Developed the first methods for examining patients (auscultation, percussion).

Test 81. Erasistrata's contribution to the development of medicine.

- a) He offered to treat the disease, not the patient.
- b) Created the oath of the doctor, explained the cause of the disease.
- c) I studied the brain (cerebellum), cranial nerves (sensory and motor).

Test 82. N. Filatov's contribution to the formation of pediatrics.

- a) Improved surgical instruments.
- b) Selected pathogen rabies, anthrax.
- c) He described chicken pox, an early sign of measles, wrote the work "A Textbook of Children's Diseases."

Test 83. Features, the development of medicine in Rome period of the republic.

- a) Priestly medicine, the emergence of doctors of the Romans.
- b) Sanitary legislation existed ("Laws of 12 tables"), hygiene rules in public places of Rome (baths, markets, sports facilities), doctors appeared - professionals from Greece, Egypt (slave doctors).
- c) There were spellcasters and representatives of family schools.

Test 84. D. Samoilovich contribution to the elimination of plague epidemics.

- a) The founder of occupational health, applied vaccination against plague and smallpox.
- b) The founder of obstetrics, epidemiology, discovered the causative agent of plague.
- c) Developed a composition for fumigation for the prevention of the plague, experienced disinfectants.

Test 85. The development of hygiene in ancient Rome.

- a) Water supply systems (aqueducts), sewage (cloaca), baths (terms) were built.
- b) The use of disinfectants.
- c) Asklepiones and fountains were created.

Test 86. The founders of social medicine in Western Europe.

- a) Lomonosov, Peter I.
- b) John Graunt, William Petty.
- c) Dobroslavin, Erisman.

Test 87. The main achievements of Oribas from Pergamum (Byzantium).

- a) Built Valetudinarii, terms, aqueducts.
- b) Wrote the "Hippocrates Collection", "On the Waters, the Air and the Territories."
- c) Compiled an abbreviated version of the synopsis encyclopaedic set; compiled the work "Generally Available Medicines".

Test 88. The contribution of A. Dobroslavin and F. Erisman.

- a) The founders of housing and school hygiene.
- b) The founders of social medicine.
- c) Founders of bacteriology.

Test 89. Medical education in Byzantium.

- a) Secular education at the university.
- b) Imperial schools, people's universities.

c) Family education (from father to son). Special schools, colleges, obtaining the post of archiatrist.

Test 90. In what year is created the Medical and Sanitary Department after the Great October Revolution in the Russian Federation.

- a) 1936
- b) 1917
- c) 1918

Test 91. Organization of hospital affairs in the Arab caliphs.

- a) When monasteries were created hospitals.
- b) Valetudinarii were created on the estates of slave owners.
- c) Large hospitals for the general population with the creation of a library and medical schools, small hospitals and military hospitals.

Test 92. The basic principles of Soviet health care.

- a) Measures to combat typhus, malaria.
- b) Reorganization of military medicine, strengthening of sanitary affairs, centralization of management.
- c) National character, preventive direction, public participation in the work of health authorities, the unity of medical science and health practice.

Test 93. The main content of the "Canon of Medicine" (1020).

- a) 6 books: on the structure of the human body, on surgical instruments, on ethics, on anatomy, general questions, training in medical knowledge.
- b) 5 books: 1 book - the theory of medicine, 2 book - pharmacology (description of simple medicines), 3 book - description of certain diseases of the head, ears, nose, eyes, etc., 4 book - is dedicated to surgery, traumatology, cosmetology, 5 book - set out complex drugs, poisons.
- c) About measles and smallpox, about hygiene in 25 volumes.

Test 94. The first decrees for the prevention of infectious diseases.

- a) To combat typhoid fever, cholera, smallpox.
- b) To combat malaria, cholera, epidemics, plague.
- c) On measures to combat typhus, on compulsory opeprivanja, on the provision of soap and baths.

Test 95. The development of medicine in Kievan Rus.

- a) Priestly and monastic medicine.
- b) Traditional medicine: - healers - witches, wizards, etc. (treated with conspiracies and drugs), monastic medicine, secular medicine.
- c) Folk and priestly medicine.

Test 96. When and by whom streptocid was discovered.

- a) A. Fleming. (1929).
- b) G. Selye. (1922).
- c) G. Domagkom. (1934-1935).

Test 97. Merit M.Serveta in the formation of anatomy.

- a) Measured 12 - duodenal ulcer, the heart is the center of consciousness.
- b) Opened the pulmonary circulation, argued that the removal of soot (CO<sub>2</sub>) from the blood and its saturation with "fresh air" occurs in the lungs.
- c) Described the membrane of the brain, pulse, heart consists of 3 chambers.

Test 98. Who and when was discovered the genetic code of DNA, RNA.

- a) J. Watson, F. Creek. in 1953
- b) W.B. Cannon 1936
- c) G. Florey, 1922

Test 99. A scientist who transplanted a person's heart.

- a) Christian Bernard, in 1967
- b) Petrovsky B.V., in 1950
- c) A. Karel in 1968

Test 100. The founders of the Soviet and Russian transplantology.

- a) Bakulev, Burdenko.
- b) Demikhov, Shumakov.
- c) Petrovsky, Chazov.

Test 101. The main directions of healing in Babylonia and Assyria.

- a) Priestly medicine (spellcasters - Ashipu). Folk, empirical (healers - Alu).
- b) "Yang" and "yin" - the basis of the treatment of patients.
- c) Secular medicine.

Test 102. Methods of combating epidemics in Russia.

- a) They killed the sick, burned houses and streets.
- b) Fumigation with smoke, burning, the dead were buried outside the city limits, and on the roads leading to the cities, outposts were organized.
- c) The use of disinfectants.

Test 103. Features of healing in ancient Egypt.

- a) Craftsmen-healers, representatives of family schools of physicians, priestly (magic medicine).
- b) Traditional medicine - Alla exorcists.
- c) Priestly medicine - spellcasters Ashipu.

Test 104. C. Darwin - the founder of evolutionary theory.

- a) Studied the body immunity.
- b) Considered the driving force of evolution - cell theory and the law of conservation and transformation of energy.
- c) The founder of the evolutionary theory of "The Origin of Species by Natural Selection" (1859).

Test 105. Sources of study medicine in ancient Egypt.

- a) Basalt pillar with the laws of King Hammurabi.
- b) Cuneiform tables.
- c) Smith Papyrus, Ebers, hermetic books.

Test 106. The beginning of anatomical research in Russia.

- a) Associated with the era of Peter 1 (1682-1725).
- b) Associated with the activities of Louis Pasteur in 1881
- c) Associated with the activities of Lomonosov in 1855

Test 107. The concepts of two principles (yang, yin) in ancient China.

- a) The male beginning "yang" - active, female beginning "yin" - passive, dividing diseases into 2 groups yang and yin.

- b) "Yang" is a passive principle, "yin" - an active principle is associated with a reduced function of the body.
- c) They divided all diseases into three groups (fire, metal, water).

Test 108. The founder of histology Marcello Malpigi.

- a) He opened the circles of blood circulation, veins, arteries.
- b) He opened the capillaries (1661), described the shaped elements of the blood (1665), wrote the works "On the Formation of a Chicken in an Egg" and "On the Development of an Egg".
- c) Created a classification of diseases and tissues.

Test 109. The art of healing "Ayurveda".

- a) Priestly medicine, medicine of Babylon and Assyria.
- b) The combination of priestly and traditional medicine, medicine of ancient India.
- c) Secular medicine, Chinese medicine.

Test 110. The merits of Edward Jener in the eradication of smallpox.

- a) Conducted an experiment on the method of vaccination against smallpox in 1796
- b) Created the theory of blood circulation and wrote the work "On contagion and contagious diseases" in 1754.
- c) Created a cell theory in 1838

Test 111. The code of laws of Manu in ancient India.

- a) Considered the legal aspects of the doctor: the doctor's work and his responsibility are strictly determined by the financial situation of the patient.
- b) The doctor for the unsuccessful treatment, had to pay a fine, covered personal hygiene, the effects of climate on health.
- c) Written data on the structure of the human body.

Test 112. Robert Koch, his merits.

- a) Nobel laureate, discovered the causative agent of tuberculosis, outlined the concept of the pathological tuberculosis process.
- b) Established a pathogen of rabies, smallpox.
- c) Created the theory of immunity and immunity of the organism.

Test 113. The role of Talmudists in the treatment of diseases in Judea.

- a) Doctors - artisans, treated with acupuncture and cauterization.
- b) Representatives of secular medicine, healed by conspiracies and spells.
- c) Adoration of the one God, Jehovah; all diseases were interpreted as punishment for sins, the treatment was accompanied by spells and prayers, medicines were used: from wine berries, fish bile.

Test 114. Merit Sechenov I.M.

- a) Created the theory of immunity.
- b) Opened the reflex nature of higher nervous activity.
- c) Created the doctrine of higher nervous activity.

Test 115. Sources of study of medicine pre-policidal period of ancient Greece.

- a) Homer's poems "Odyssey" and "Iliad".
- b) Hippocratic compilation.
- c) Ebers and Smith Papyri.

Test 116. The first methods of clinical examination of patients.

- a) Aseptic, antiseptic.
- b) Pulse diagnosis, patient questioning.
- c) Thermometry, percussion, auscultation.

Test 117. Philosophy of the Kroton School of Medicine.

- a) The organism is the unity of opposites; a healthy organism is the result of the balance of opposing forces; the opposite is cured by the opposite.
- b) Identification of 4 bodily juices (blood, mucus, bile, black and light).
- c) The heart is the main organ of consciousness.

Test 118. Who first invented the method of auscultation of patients.

- a) Auenbrugher, 1761
- b) Fahrenheit, 1714
- c) Layennek, 1819

Test 119. Basics of the Kosovo School of Medicine.

- a) Considered the body in close connection with the surrounding nature, developed the principle of observation and treatment at the patient's bedside, developed the foundations of medical ethics.
- b) Identification of bodily juices with diseases (blood, mucus, black and light bile).
- c) Studied signs of disease and diagnosis.

Test 120. The contribution of M.V. Lomonosov in the development of medicine.

- a) He offered an individual approach to the patient, organized a clinical laboratory, a scientific school of therapy.
- b) He laid the foundations of the scientific view of nature, matter and motion, emphasized the great importance of chemistry for medicine, the founder of social medicine.
- c) Nobel laureate, founder of immunology.

Test 121. Hippocrates - the ancestor of ancient Greek medicine.

- a) I examined the eye, measured the duodenum.
- b) Described the membranes of the brain, pulse, structure of the human body.
- c) Developed a study on the treatment of fractures (hood, tires), a study on the temperament of a person, suggested the opposite treatment.

Test 122. Merit S. Botkin.

- a) He organized the first clinical laboratory in Russia, described the clinic of diseases of the heart, blood vessels, kidneys, isolated infectious hepatitis.
- b) The founder of surgery, applied ether anesthesia.
- c) Introduced the writing of the medical history, studied the diseases of the brain.

Test 123. The role of Herophile in the development of medicine of Alexandria.

- a) Created the oath of the doctor, explained the cause of the disease.
- b) Described the hard and pia mater of the brain, measured the small intestine.
- c) He offered to treat the patient, not the disease.

Test 124. Pirogov N. I. - the founder of surgery in Russia.

- a) Gave a scientific rationale for the use of ether anesthesia, attracted women to care for the wounded during the hostilities (sisters of mercy).
- b) Developed a theory of higher nervous activity and blood circulation.
- c) Developed the first methods (auscultation, percussion) of patients.

Test 125. Features of the development of medicine of ancient Rome, the royal period.

- a) Secular, folk - were treated with conspiracies and spells.
- b) Spellcasters Allah and Ashipu, secular medicine.
- c) Traditional medicine (treatment with herbs and magic plots). Priestly medicine (engaged in fortune-telling on the insides of sacrificial animals).

Test 126. Contribution N. Filatov in the formation of pediatrics.

- a) Isolated pathogen of rabies, anthrax, childhood infections.
- b) Opened an early sign of measles, wrote the work "Textbook of childhood diseases."
- c) Improved surgical instruments and organized a children's hospital.

Test №127. Meditsina Rome period of the empire.

- a) The law of "12 tables", there were doctors professionals - arhiatry and dr. Of Egypt.
- b) Priestly medicine, the emergence of doctors from ancient Rome and Alexandria.
- c) The army created hospitals - Valeotudinarii. Civilian hospitals were not. At the court of the emperor - "court arihiatry", collegium of archiatrists.

Test 128. The contribution of D. Samoylovich.

- a) Developed a composition for fumigation for the prevention of the plague, experienced disinfectants.
- b) The founder of obstetrics, epidemiology, discovered the causative agent of plague.
- c) The founder of professional hygiene, applied vaccination against plague.

Test 129. Organization of hospitals in Byzantium.

- a) Construction of civilian hospitals.
- b) The construction of hospitals at monasteries.
- c) Construction of large hospitals and Valetudinarians.

Test 130. The contribution of A. Dobroslavin and F. Erisman.

- a) The founders of housing and school hygiene.
- b) The founders of social medicine.
- c) Founders of bacteriology.

Test 131. Contribution to the development of medicine Ar - Razi.

- a) Wrote a treatise on Osp and Measles, A Comprehensive Book on Medicine, Medical Book, the founder of hospitals in Baghdad.
- b) Wrote the theory of fractures, temperament, wrote the Canon of medical science.
- c) He has created 125 works "On Anatomy", "On Medicine", "Comments on the Labor of Hippocrates".

Test 132. In what year the medical and sanitary department is formed in the Russian Federation in the first years of the Soviet Power.

- a) 1936
- b) 1918
- c) 1917

Test 133. Contribution to the development of medicine Avicenna.

- a) Posted work "On the structure of the human body."
- b) I wrote a work in 5 volumes of the "Canon of Medicine", about anatomy, pathology, physiology, surgery, etc.
- c) He wrote the work "On Medicines".

Test 134. The basic principles of Soviet health care.

- a) Reorganization of military medicine, strengthening of sanitary affairs.
- b) National character, preventive direction, public participation in the work of health authorities, the unity of medical science and health practice.
- c) Measures to combat typhus and malaria.

Test №135. Contribution to the development of medicine by scientists of Armenia.

- a) They wrote a work about medications, eminent doctors Ar-Razi, Vesalius.
- b) They wrote a doctrine about temperament, fractures, ethics, prominent doctors Razi, Avicenna.
- c) MkhitarTiraci wrote the work "Consolation in a fever".

Test 136. Public participation in the work of health authorities of the Soviet period.

- a) Participation in the promotion of medical knowledge.
- b) Sanitary courts, sanitary police.
- c) Attracting workers to medical and sanitary work with a shortage of medical personnel, creating commissions for improving work and living conditions, mass dramatization (sanitary theater), sports events, sanitary courts and promoting healthy lifestyles.

Test 137. The development of medicine in Kievan Rus.

- a) Priestly and monastic medicine.
- b) Traditional medicine: - healers - witches, wizards, etc. (treated with conspiracies and drugs), monastic medicine, secular medicine.
- c) Folk and priestly medicine.

Test 138. A scientist who discovered penicillin.

- a) A. Fleming. 1929
- b) A. Calmet in 1921
- c) G. Domagkom. (1934-1935).

Test 139. Definition of galenism.

- a) Studies the interaction of man and nature.
- b) Typical philosophy based on church dogmas.
- c) Distorted, one-sided interpretation of the teachings of Galen.

Test 140. Who and in what year created an artificial model of the heart.

- a) K. Bernard, in 1967
- b) Demikhov V.P., in 1951
- c) Michael de Becky, in 1965

Test 141. Merit A. Vesalius in the formation of anatomy.

- a) Posted work "On the structure of the human body."
- b) Described the drugs, created the first hospital.
- c) Described the human disease.

Test 142. What is the year and date of creation of WHO.

- a) June 15, 1952
- b) April 8, 1947
- c) April 7, 1948

Test 143. The contribution of A. Pare to the development of surgery.

- a) Created the first hospital and imperial school.
- b) He wrote the work "A Way to Heal Gunshot Wounds," created a study on the treatment of gunshot wounds.
- c) Created a family medical school.

Test 144. Representatives of traditional and religious medicine of the Kyrgyz.

- a) Tabiby, shamans.
- b) Healers, sorcerers.
- c) Representatives of family schools.

Test 145. The development of pharmacy in Western Europe.

- a) In Europe, the first pharmacies appeared in the XI century. in the Spanish cities of Toledo and Cordova.
- b) The first pharmacy appears in 754, in Paris.
- c) The first pharmacies appeared in 1581 in Holland.

Test 146. On the eve of the October Revolution, the state of health care in Kyrgyzstan.

- a) There were 3 hospitals, 7 doctors, 3 medical attendant points.
- b) There were 5 hospitals, 10 doctors, 3 paramedics.
- c) There were 7 hospitals with 100 hospital beds, 15 doctors, 21 first-aid stations.

Test 147. The emergence of the first pharmacies in Moscow State.

- a) The first pharmacy appeared in 1581
- b) The first pharmacy originated in 754.
- c) The first pharmacy appeared in 1680

Test 148. In 1925 in the town of Pishpek were opened.

- a) Tuberculosis dispensary, malaria station, resorts.
- b) Maternity hospital, children's consultation, dental surgery, venereal ambulatory.
- c) 5 resorts and sanatoriums functioned, a single pharmacy chain system was created.

Test 149. Generalization of knowledge of folk medicine in the Moscow State.

- a) Written herbalists ("Alexandria", "Vertograd") and healers.
- b) "Hippocrats Collection", the works of Vesalius.
- c) Written "Synapses" for the manufacture of medicines.

Test 150. Health of Kyrgyzstan in the pre-war years.

- a) In 1938 the Scientific Research Institute of Epidemiology, Hygiene and Microbiology was opened, in 1939 the KSMI opened.
- b) 1939 opened the first-aid obstetric college in the city of Frunze.
- c) 1940 opened KGMI, resorts.

Test 151. The laws of King Hammurabi on the legal status of healers.

- a) On the papyrus written data on the structure of the human body.
- b) Recipes are written on the tables.
- c) Legal aspects of the doctor's activities are considered, (responsibility is strictly determined by the financial status of the patient).

Test 152. The great discoveries of the natural sciences of the 18-19 centuries.

- a) The doctrine of fractures, temperament, the discovery of penicillin and streptococci.
- b) The doctrine of smallpox, bark, blood circulation.

c) The theory of the cellular structure of living organisms, the law of conservation and transformation of energy, evolutionary theory, the law of heredity and variability.

Test 153. The doctrine of the pneuma of ancient Egypt.

- a) The introduction of the spirit of the deceased into the human body.
- b) It is a small and large circle of blood circulation.
- c) A special substance that enters the lungs, from them, the heart and from it through the vessels throughout the body.

Test 154. The main achievements of Frederick Ruysch in the development of anatomy.

- a) He perfectly mastered the technique of preparing anatomical preparations, invented a method of embalming corpses, created the first anatomical museum.
- b) Created a cellular theory, considered the center of blood circulation the liver.
- c) Heredity and variability were the main factors of evolution, he dissected animals.

Test 155. The development of healing in ancient China.

- a) Alternative medicine, folk, secular medicine.
- b) Craftsmen - healers.
- c) Priestly medicine.

Test 156. The founders of the Russian anatomical school.

- a) Lomonosov, Lavoisier - studied the blood circulation.
- b) Malpighi, Ruysch, studied the structure of the human body.
- c) Schepin K. - he taught medicine in Russian, Zagorsky P. A. - approved Russian terminology instead of Latin.

Test 157. The use of Zhen Jiu therapy in ancient China.

- a) Use of plant origin.
- b) Acupuncture and cauterization.
- c) Use of animal products.

Test 158. The founders of pathology in Western Europe.

- a) Malpighi, Polunin, Ruysch.
- b) Shchepin, Vesalius, Ruysch.
- c) Giovanni Battist Morgagni, Francois Xavier Bisch, Karl Rokitansky, Rudolf Virchow.

Test 159. The activities of the ancient Indian healer Sushrutu.

- a) Wrote the full edition of "Ayurveda", carried out plastic surgery, amputations; knew a number of obstetric techniques (embryotomy).
- b) Considered the legal aspects of healing, preparation of medicines.
- c) Used cauterization, acupuncture, amputation of limbs.

Test 160. Activities Louis Pasteur.

- a) Created a theory of heredity and variability, described tuberculosis.
- b) He studied the role of microorganisms in the process of fermentation, decay, the occurrence of the disease, created a vaccine against anthrax and rabies.
- c) Created a cell theory, the study of contagion.

Test 161. Features of healing in Tibet.

- a) The use of herbal medicines at certain times of the day.
- b) Surgery, plastic surgery.
- c) Cauterization, acupuncture.

Test 162. I.I. Swordsmen, the main services.

- a) Discovered the causative agent of cholera, anthrax.
- b) The winner of the Nobel Prize for the theory of immunity, discovered leukocytes, cells of the spleen, bone marrow (he called them phagocytes), created phagocytic theory.
- c) He discovered the causative agent of tuberculosis, anthrax, rabies.

Test 163. Stages of development of medicine of ancient Greece.

- a) Classical period, ancient kingdom, new kingdom.
- b) Croton, Cnidus, Sicilian stages.
- c) The Creto - Mycenaean period, the pre-policing period (11-9 centuries BC), the classical period.

Test 164. Merits Pavlova I.P.

- a) The Nobel Prize winner (1904.), the creator of the theory of higher nervous activity, justified the principle of "nervism."
- b) Created the phagocytic theory, the theory of immunity.
- c) Established a pathogen of rabies, cholera.

Test 165. Temple medicine of ancient Greece.

- a) The priests were engaged in divination in the guts of the sacrificial animals.
- b) The priests treated, under the influence of intoxicants, the patients fell asleep and the dreams were interpreted by the priests.
- c) He was treated with conspiracies and spells in asclepiones and terms.

Test 166. Who first invented the method of percussion of patients.

- a) Layennek, 1819
- b) Fahrenheit, 1714
- c) Auenbrugher, 1761

Test 167. Knidd Medical School and its directions.

- a) The foundations of the humoral teaching are laid, according to which health is a favorable mixture of four body fluids, and their unfavorable mixture is the cause of diseases.
- b) Development of the basis of medical ethics.
- c) The heart is the main organ of consciousness.

Test 168. Education Hospital School in Russia.

- a) Organized in 1707 in Moscow.
- b) Organized in 1581 on the territory of the Kremlin.
- c) Established in 1881 in Paris.

Test 169. Sicilian School of Medicine, its philosophy.

- a) Observation at the bedside.
- b) The recognition of the heart as the main organ of consciousness.
- c) Humoral teaching - health is a favorable mixture of bodily juices.

Test 170. M. Mudrov - the founder of the therapeutic school in Russia.

- a) Applied methods of palpation, percussion and auscultation. Entered the writing of medical history.
- b) Organized the first clinical laboratory in Russia.
- c) Described the clinic of hepatitis, heart disease.

Test 171. The role of Aristotle in the development of medicine of Alexandria.

- a) Created the oath of the doctor, explained the cause of the disease.
- b) He offered to treat the disease, not the patient.
- c) Described the membranes that protect the heart, internal organs; described the pulse, the heart consists of 3 chambers.

Test 172. Founders of surgery in Western Europe.

- a) Pirogov, Botkin - applied ether anesthesia.
- b) Jean-Louis Petit - the first director of the Surgical Academy, Jean-Larrey - the founder of field surgery, created a "flying field hospital" to transport the wounded.
- c) Pierre Fochard, Dobroslavin contributed to the development of military hygiene.

Test 173. The role of Erasistratus in the development of medicine of Alexandria.

- a) I studied the brain, cranial nerves (sensory and motor).
- b) Created the oath of the doctor, explained the cause of the disease.
- c) He offered to treat the patient, not the disease.

Test 174. In what year was applied and by whom ether anesthesia.

- a) 1761 Auenbrugger.
- b) 1819 Layennek.
- c) 1847 N.I. Pirogov.

Test 175. Features of the development of medicine in Rome period of the republic.

- a) Priestly medicine.
- b) Sanitary legislation existed ("Laws of 12 tables"), compliance with hygiene rules in public places.
- c) Construction of aqueducts, therm.

Test 176. M. Maksimovich-Ambodik - the founder of obstetrics.

- a) Creator of the scientific school of pediatrics.
- b) The creator of the theory of contagion and contagious diseases.
- c) He wrote the work "The Art of Povivania, or the Science of a Woman's Business" - the first manual on obstetrics and pediatrics.

Test 177. Claudius Galen - an eminent physician of ancient Rome.

- a) Anatomized animals (monkeys, pigs, dogs); the data obtained at the autopsy, transferred to the human body, studied simple dosage forms.
- b) Built aqueducts, terms.
- c) Developed the theory of fractures, temperament of a person.

Test 178. The founders of social medicine in Western Europe.

- a) Lomonosov, Peter I.
- b) John Graunt, William Petty.
- c) Dobroslavin, Erisman.

Test 179. Medical education in Byzantium.

- a) Imperial schools at the court of the Emperor.
- b) Secular education at the university.
- c) Family education (from father to son). Special schools, colleges.

Test 180. Nobel Prize Winners of the New Time.

- a) N. Dobroslavin, Pasteur.

- b) M.I. Sechenov, Pettenkofer.
- c) I.I. Mechnikov, R. Koch, P. Ehrlich.

Test 181. Organization of hospital affairs in the Arab caliphs.

- a) Valetudinarii were created on the estates of slave owners.
- b) Large hospitals for the general population with the creation of a library and medical schools, small hospitals, military clinics.
- c) When monasteries existed on the basis of monastic decrees.

Test 182. The role of N.A. Semashko in the organization of the health care system.

- a) First People's Commissar of Health of the RSFSR, in 1922 headed the Department of Social Hygiene of Moscow State University.
- b) First People's Commissar of Health of the USSR Chairman of the Red Cross Society.
- c) He headed the military sanitary institution, the medical-sanitary department.

Test 183. The main content of the "Canon of Medicine" (1020) Abu Ali Ibn Sina.

- a) 6 books: on the structure of the human body, on surgical instruments, on ethics, on anatomy, general questions, training in medical knowledge.
- b) 10 books: about measles and smallpox, about hygiene.
- c) 5 books: 1 book - theory of medicine, 2 book - pharmacology (description of simple medicines), 3 book - description of certain diseases of the head, ears, nose, eyes, etc., 4 book - is dedicated to surgery, traumatology, cosmetology, 5 book - set out complex drugs, poisons.

Test 184. The state character of the Soviet public health.

- a) Preventive direction, public participation in health care.
- b) The unity of medical science and practice.
- c) Centralization of management; government funding; planning; free, public medical care for the entire population.

Test 185. Contribution to the development of medicine scientists of Georgia.

- a) Kananeli, wrote the essay "The Incomparable Karabadin."
- b) Written work on medications, eminent doctors Sushruta, Vesalius.
- c) They wrote a doctrine about temperament, fractures, ethics, outstanding doctors of Razi, Avicen.

Test 186. Scientist who discovered streptococci.

- a) G. Domagala. (1934-1935).
- b) G. Selye. (1922).
- c) A. Fleming. (1929).

Test 187. Definition of scholasticism.

- a) Studies the interaction of man and nature.
- b) Typical philosophy based on church dogmas.
- c) Studies anatomy on corpses, the study of primary elements.

Test 188. The scientist who discovered the DNA code, RNA.

- a) W.B. Cannon 1936
- b) G. Florey, 1922
- c) J. Watson, F. Crick. in 1953

Test 189. Merit M.Servetaki in the formation of anatomy.

- a) He opened the small circle of blood circulation, refuted Galen's opinion about the leakage of blood from the left half of the heart into the right through a hole in the partitions.
- b) Measured 12 - duodenal ulcer, the heart is the center of consciousness.
- c) Described the membranes of the brain, pulse, heart.

Test 190. Scientist transferred the heart to man.

- a) Petrovsky B.V., in 1950
- b) A. Karel in 1968
- c) Christian Bernard, in 1967

Test 191. Merit W. Garvey in the development of physiology.

- a) Created a teaching on the structure of the human body.
- b) Opened the capillaries and the pulmonary circulation.
- c) Created the theory of blood circulation, opened the small and large circle of blood circulation, veins, arteries (except capillaries).

Test 192. Year of establishment of the International Committee of the Red Cross (year of creation).

- a) 1948
- b) 1876
- c) 1947

Test 193. Merits D. Frakastoro in the study of infectious diseases.

- a) He wrote the work "On Contagia, Contagious Diseases and Treatment," outlined the basics of the theory of contagion (a lively breeding infectious principle given to a patient).
- b) Described the skeleton of a man, his muscles.
- c) Proposed a special mixture for the treatment of wounds.

Test 194. The first medical institutions in Kyrgyzstan, opened in the years of Tsarist Russia.

- a) Paramedic station in Karakol, Osh in 1908
- b) In 1912 in Pishpek, Tokmak.
- c) In the years 1885-1896. hospitals with an outpatient clinic were opened in Osh, Pishpek and Karakol, a resettlement hospital in Pishpek in 1911.

Test 195. Activity of the Pharmaceutical Order in Russia, the year of its creation.

- a) Pharmaceutical order - was engaged in the study of medicine, (1654).
- b) Pharmaceutical Order - an institution for the preparation of medicinal raw materials only, (1717).
- c) Pharmaceutical Order - a court institution for the management of medical and pharmaceutical affairs, (1620).

Test 196. Health of Kyrgyzstan in the early years of Soviet power.

- a) Carrying out sanitary measures, combating social diseases, free medical care.
- b) The fight against representatives of traditional medicine.
- c) The main goal is to provide soap and baths.

Test 197. Preparation of Russian doctors, medical school.

- a) In the 11th century, medical schools emerged in Toledo.
- b) In 1581, pharmacy schools appeared.
- c) In 1654, the first medical school opened.

Test 198. Health care during the existence of the Kyrgyz Autonomous Republic.

- a) Created anti-epidemic management, maternity hospital, tubes. Hospital.
- b) Maternity hospital, venous dispensary, resorts.
- c) The People's Commissariat for Healthcare was formed, an obstetric technical school was opened, and an electrophotherapy with an X-ray diagnostic room opened in Frunze.

Test 199. Health care in Kyrgyzstan in the postwar years.

- a) 1980 Improvement of the health care system.
- b) 1990 Republican Diagnostic Center was opened.
- c) 1947 merger of polyclinics with a hospital, dispensaries are open in all areas.

Test 200. The first laws on health protection in the years of the sovereignty of Kyrgyzstan (1992).

- a) The Law "On Health Protection, on San. Epid. well-being, health insurance, blood donation".
- b) "On the reproductive rights of citizens, on the provision of psychiatric care."
- c) "On health care reform".

**EVALUATION SCALE CONTROL WORK (theoretical questions) (terminal control)**

"85-100%"

- deep and lasting assimilation of the material of the topic: " Healing in the countries of the Ancient East and in the ancient world. Medicine of the periods of the early, developed and late Middle Ages "; " Medicine of Modern and Modern History ";
- complete, consistent, competent and logically presented answers to questions;
- reproduction of educational material on the topics of the module with the required high degree of accuracy.

"70 -84%"

- the presence of minor errors in the presentation of the material of the module;
- demonstration to students of knowledge in the volume of the program passed;
- clear presentation of educational material.

"60-69 % "

- the presence of significant errors in the answers on the topic of the module;
- demonstration to students of insufficiently complete knowledge of the completed program;
- not a clear presentation of educational material in the answer.

"less than 59 % "

- not knowing the material of the topic;
- there are serious errors in the response.

When conducting the control work «Healing in the countries of the Ancient East and in the ancient world. Medicine of the periods of the early, developed and late Middle Ages»

0-59% - 0-4 points rating "unsatisfactory"

60-69% - 5-6 points score "satisfactory"

70-84% - 7-8 points "good"

85-100% - 9-10 points "excellent"

When conducting the control work " Medicine of the New and Recent History "

0-59% - 0-4 points rating "unsatisfactory"

60-69% - 5-6 points score "satisfactory"

70-84% - 7-8 points "good"

85-100% - 9-10 points "excellent"

**SCALE OF EVALUATION OF SUMMARY WITH PRESENTATION (current control)**

No.	Name of indicator	Mark (in %)
<b>THE FORM</b>		10
1.	Dividing the text into introduction, body and conclusion	0-5
2.	Logical and clear transition from one part to another, as well as within parts	0-5
<b>CONTENT</b>		50
1.	Relevance to the topic	0-10
2.	The presence of the main topic in the introductory part	0-10
3.	Development of the topic in the main part (disclosure of the main provisions through a system of arguments supported by facts, examples, etc.)	0-15
4.	The presence of conclusions corresponding to the topic and content of the main part	0-15
<b>PRESENTATION</b>		25
1.	Title page with title	0-2

2.	Slides design and use of additional effects (slide transitions, sound, pictures)	0-5
3.	The text of the presentation is short, well-formed and the ideas are clearly stated and structured.	0-10
4.	Slides are presented in a logical sequence	0-5
5.	Slides are printed	0-3
<b>REPORT</b>		15
1.	Correctness and accuracy of speech during defense	0-5
2.	Breadth of horizons (answers to questions)	0-5
3.	Implementation of the regulations	0-5
<b>Total points</b>		<b>Sum of points</b>

When conducting an abstract with a presentation

0-59% - 0-14 points "unsatisfactory" rating

60-69 % - 15-18 points "satisfactory" rating

70 -84% - 19-21 points "good"

85-100% - 22-25 points "excellent"

### **EVALUATION SCALE FRONTAL SURVEY IN THE FORM OF A TEST (current control)**

1. There are 20 questions in one test task.
2. The questions are given ready-made answers to choose from, one is correct and the rest are incorrect.
3. For each correct answer - 5%.
4. The total score is defined as the sum of accrued interest.
5. The accumulated percentage is converted into points.

When testing:

0-59% - (0-11 correct answers), then this is 0-14 points "unsatisfactory"

60-69% - (12-14 correct answers), then this is 15-18 points score "satisfactory"

70-84% - (15-17 correct answers), then this is 19-21 points "good"

85-100% - (18-20 correct answers), then this is 22-25 points score "excellent"

### **SCALE OF EVALUATION OF ORAL SURVEY (intermediate control - "KNOW")**

following criteria are taken into account when evaluating oral responses to the KNOW proficiency test :

1. Knowledge of the main processes of the studied subject area, the depth and completeness of the disclosure of the issue.
2. The ability to explain the essence of phenomena, events, processes, draw conclusions and generalizations, give reasoned answers.
3. Possession of monologue speech, logic and consistency of the answer, the ability to answer the questions posed, to express one's opinion on the problem under discussion.

85-100% **(16-20 points)** the answer is estimated, which shows a solid knowledge of the general patterns of the world-historical process of the formation and development of medicine; achievements of each new era in the field of medicine; differences between folk, traditional and scientific medicine; the life and work of outstanding doctors and medical scientists, the scientific achievements of their schools; the history of the most important discoveries in medicine; the history of the development of medical ethics; logic and consistency of the answer.

70-84% **(10-15 points)** the answer is estimated, revealing a solid knowledge of the general patterns of the world-historical process of the formation and development of medicine; achievements of each new era in the field of medicine; differences between folk, traditional and scientific medicine; the life and work of outstanding doctors and medical scientists, the scientific achievements of their schools; the history of the most important discoveries in medicine; the

history of the development of medical ethics; logic and consistency of the answer. However, one or two inaccuracies in the answer are allowed.

60-69% **(5-10 points)** evaluate the answer, which testifies mainly to the knowledge of the basics of the general laws of the world-historical process of the formation and development of medicine; insufficient depth of knowledge of the achievements of each new era in the field of medicine; differences between folk, traditional and scientific medicine; the life and work of outstanding doctors and medical scientists, the scientific achievements of their schools; the history of the most important discoveries in medicine; history of the development of medical ethics. Several errors are allowed in the content of the answer.

0-59% **(1-4 points)** the answer is estimated, revealing ignorance of the general patterns of the world-historical process of the formation and development of medicine, distinguished by a shallow disclosure of the topic; ignorance of the achievements of each new era in the field of medicine; inability to give reasoned answers, poor command of monologue speech, lack of logic and consistency. Serious errors in the content of the answer are allowed.

### **SCALE FOR PRACTICAL ASSIGNMENTS**

#### **(intermediate control - "TO BE ABLE AND TO OWN")**

When evaluating answers to the test of the level of knowledge TO BE ABLE and TO OWN, the following criteria are taken into account:

85-100% **(8-10 points)** the answer is assessed, in which the student is able to analyze the informational value of the most important stages in the development of medicine; work independently with educational, scientific, reference literature; reveals the natural scientific essence of outstanding discoveries in medicine and the contribution of outstanding doctors to its development; has the ability to logical and reasoned analysis of the development of medicine, discussion.

Demonstrates a thorough understanding of the problem. All requirements for the assignment have been met .

70-84% **(4-7 points)** is evaluated by the answer, in which the student is able to analyze the informational value of the most important stages in the development of medicine; work independently with educational, scientific, reference literature; reveals the natural scientific essence of outstanding discoveries in medicine and the contribution of outstanding doctors to its development; lacks the ability to logically and reasonably analyze the development of medicine, to conduct discussions.

Demonstrates significant understanding of the problem. Most of the requirements for the assignment are met .

60-69% **(1-3 points)** assesses the answer, in which the student is not able to analyze the informational value of the most important stages in the development of medicine; work independently with educational, scientific, reference literature; does not reveal the natural scientific essence of outstanding discoveries in medicine and the contribution of outstanding doctors to its development; does not possess the ability to logical and reasoned analysis of the development of medicine, to conduct discussions well enough.

Demonstrates partial or little understanding of the problem. Many requirements for the assignment were not met.

0-59% **(0 points)** the answer is assessed, in which the student demonstrates a lack of understanding of the problem or no answer and there was not even an attempt to solve the problem.

**TECHNOLOGICAL MAP OF THE DISCIPLINE  
"HISTORY OF MEDICINE"**

**Course 1, semester 2, number of CU - 2, Reporting - credit**

<b>The name of the modules of the discipline according to the DWP</b>	<b>Control</b>	<b>Form of control</b>	<b>crediting minimum</b>	<b>credit maximum</b>	<b>control schedule</b>
<b>Module 1</b>					
The history of healing	Current	Activity, attendance, frontal survey by tests, ISW: preparation of an essay with a presentation	15	25	10 week
	Midterm control	Test	5	10	
<b>Module 2</b>					
History of medicine and Kyrgyzstan		Activity, attendance, frontal survey by tests, ISW: preparation abstract with presentation	15	25	17 week
	Midterm control	Test	5	10	
<b>TOTAL per semester</b>			40	70	<b>18 week</b>
<b>Intermediate control (Test)</b>					
<b>1. Theoretical questions (0-20 points)</b>			20	30	
<b>1. 2. Analytical task (0-10 points)</b>					
<b>Semester rating by discipline</b>			60	100	