

№	krok 2013
Topic	Hygiene of patient care institutions»
Task	Sanitary examination of the burns unit for adults revealed that 4-bed wards had an area of 28 m ² . What is the minimally required ward area for this department?
Correct answer	40 m ²
B	24 m ²
C	28 m ²
D	30 m ²
E	52 m ²
№	krok 2013
Topic	«Municipal hygiene»
Task	In order to reduce weed growth on agricultural land, some herbicides have been used for a long time. In terms of environmental stability these herbicides are rated as stable. Specify the most likely route of their entry into the human body:
Correct answer	Soil-plants-humans
B	Soil-microorganisms-humans
C	Soil-animals-humans
D	Soil-protozoa-humans
E	Soil-insects-humans
№	krok 2012
Topic	«Municipal hygiene»
Task	Educational rooms are illuminated with various lighting fittings. What type of lighting fittings is the most appropriate in respect of hygienic norms?
Correct answer	Indirect light fittings
B	Direct light fittings
C	Semi-reflected light fittings
D	Ambient light fittings
E	Combined light fittings
№	krok 2012, 2011
Topic	«Municipal hygiene»

Task	It is required to analyze the level of daylight illumination in a ward of therapeutics unit. What device should be applied to estimate the level of daylight illumination?
Correct answer	Illuminometer
B	Anemometer
C	Katathermometer
D	Actinometer
E	Psychrometer
№	krok 2012
Topic	«Hygiene of children and adolescents»
Task	During the medical examination at school the schoolchildren had to undergo plantography. After the analysis of footprints platypodia was found in 30% of pupils. What is the percentage of the flatfoot isthmus?
Correct answer	65%
B	30%
C	50%
D	55%
E	45%
№	krok 2012
Topic	«Municipal hygiene»
Task	Production areas of a greenhouse complex have the following microclimate parameters: air temperature - 42° C, humidity - 98%, air velocity - 0,05 mps, temperature of enclosing surfaces - 15° C. Characterize the microclimate of production areas:
Correct answer	Overheated
B	Comfortable
C	Cooling
D	Uncomfortable
E	Satisfactory
№	krok 2012
Topic	«Hygiene of nutrition»
Task	Sanitary-veterinary examination of a cow carcass revealed measles contamination (2-3 measles per 10 cm ²). What tactics should be chosen in respect of this meat consumption?
Correct answer	The whole carcass should be technically disposed
B	Meat can be sold without any restrictions

C	The carcass should be used for the production of canned meat
D	Meat should be disinfected by boiling
E	Meat should be disinfected by freezing
№	krok 2011
Topic	«Hygiene of children and adolescents»
Task	A children's health camp received a party of tinned food. External examination of the tins revealed that they had deep dents, could be easily concaved when pressed and wouldn't immediately return to the initial state; rust was absent; the tins were greased with inedible fat. Specify the bloat type:
Correct answer	Physical
B	Chemical
C	Biological
D	Combined
E	Physicochemical
№	krok 2011
Topic	«Hygiene of labour»
Task	Working conditions of a building company worker are characterized by cooling microclimate effect, silicacontaining dust, caustic alkali (quicklime) and noise. What medical expert should be the chief of the commission that periodically examines the workers of the mentioned category?
Correct answer	Therapeutist
B	Ophthalmologist
C	Neurologist
D	Dermatologist
E	Otolaryngologist
№	krok 2011
Topic	«Hygiene of labour»
Task	The air of a foundry worker's working zone contains condensation aerosol with dust particles sized 2 nm (90%), 2-5 nm (2%), over 5 nm(6%), below 2 nm (about 2%). Characterize the dust dispersivity:
Correct answer	Fine-dispersed
B	Median-dispersed
C	Coarsely dispersed
D	Ultrafine-dispersed

E	Mist
№	krok 2011
Topic	«Municipal hygiene»
Task	Educational rooms are illuminated with various lighting fittings. What type of lighting fittings is the most appropriate in respect of hygienic norms?
Correct answer	Indirect light fittings
B	Direct light fittings
C	Semi-reflected light fittings
D	Ambient light fittings
E	Combined light fittings
№	krok 2011
Topic	«Hygiene of labour»
Task	A student analyzes noise level of cold-pressing process. What device should be applied for this hygienic study?
Correct answer	Noise and vibration analyzer
B	Noise analyzer
C	Sound tester
D	Actinometer
E	Pyranometer
№	krok 2011
Topic	«Municipal hygiene»
Task	The Carpathian region is characterized by constant high humidity of atmospheric air (over 80%). Inhabitants of this region feel severe cold in corresponding season at a medium low temperature. It's caused by heat emission by:
Correct answer	Convection
B	Radiation
C	Vaporization
D	Conduction
E	-
№	krok 2011
Topic	«Municipal hygiene»

Task	According to the report of water quality control, drinking city water has the following characteristics: turbidity - 1,5 mg/m ³ , odour - 3 points, metallic taste - 2 points, pale yellow colour, colour index - 20°, temperature - 12°. Which of these factors doesn't comply with hygienic requirements?
Correct answer	Odour
B	Turbidity
C	Colour index
D	Temperature
E	Taste
№	krok 2011
Topic	«Hygiene of children and adolescents»
Task	While assessing the health status of graduates of a secondary school, the doctor found one of them to have grade 3 tonsillar hypertrophy, chronic rhinitis and vegetative-vascular dystonia. The organism functionality is reduced. This student belongs to the following health group:
Correct answer	III
B	II
C	I
D	IV
E	V
№	krok 2010
Topic	«Municipal hygiene»
Task	Basing upon the data of laboratory assessment of sanitary state of soil in a certain territory, the soil was found to be low-contaminated according to the sanitary indicative value; contaminated according to the coli titer; lowcontaminated according to the anaerobe titer (<i>Cl. Perfringens</i>). This is indicative of:
Correct answer	Fresh fecal contamination
B	Insufficient intensity of soil humification
C	Old fecal contamination
D	Constant entry of organic protein contaminations
E	Insufficient insolation and aeration of soil
№	krok 2010
Topic	«Municipal hygiene»

Task	Bacterial analysis of air in a living space in winter period by means of Krotov's apparatus revealed that total number of microorganisms in $1m^3$ of air was 7200. What is the allowed number of microorganisms for the air to be characterized as "pure"?
Correct answer	Up to 4500
B	Up to 2500
C	Up to 3500
D	Up to 5500
E	Up to 7500
№	krok 2010
Topic	«Hygiene of children and adolescents»
Task	A children's health camp received a party of tinned food. External examination of the tins revealed that they had deep dents; formed a concavity when pressed and didn't immediately return to the initial state; rust was absent; the tins were greased with inedible fat. Specify the bloat type:
Correct answer	Physical
B	Chemical
C	Biological
D	Combined
E	Physicochemical
№	krok 2010
Topic	«Hygiene of patient care institutions»
Task	The total area of a ward at the therapeutical department is $28 m^2$. What is the maximum number of beds that can be exploited in this ward?
Correct answer	4
B	1
C	2
D	3
E	5
№	krok 2009
Topic	«Municipal hygiene»
Task	The student has the following devices: Geiger counter, Ebert counter, Krotov's apparatus, Mischuk device, Ebert device. What device can he use to assess air germ pollution?
Correct answer	Krotov's apparatus

B	Ebert's counter
C	Geiger's counter
D	Mischuk's device
E	Ebert's device
№	krok 2009
Topic	«Municipal hygiene»
Task	Student B. lives in the canalized house in the flat with complete set of sanitary equipment (WC, bath, shower, local water heater). How much water consumption has he got?
Correct answer	160-200 l
B	10-15 l
C	50-100 l
D	300-400 l
E	500 l
№	krok 2009, 2008
Topic	«Hygiene of nutrition»
Task	An outbreak of food poisoning was recorded in an urban settlement. The illness was diagnosed as botulism on the grounds of clinical presentations. What foodstuffs should be chosen for analysis in the first place in order to confirm the diagnosis?
Correct answer	Tinned food
B	Potatoes
C	Pasteurized milk
D	Boiled meat
E	Cabbage
№	krok 2009, 2008
Topic	«Municipal hygiene»
Task	In order to study impact of microclimate upon the human organism it is necessary to make systematic observation of air temperature over 3 days. Choose a device that will allow to make the most precise temperature records:
Correct answer	Thermograph
B	Alcohol thermometer
C	Mercury thermometer
D	August's psychrometer
E	Assmann psychrometer

№	krok 2008, 2007
Topic	«Hygiene of nutrition»
Task	A 5 tons milk batch was sampled. The lab analysis revealed: fat content 2%, specific density - $1,04 \text{ g/cm}^3$, acidity - 21^0T , reductase probe - weak-positive. What way is the product to be used in?
Correct answer	Sell but inform customers about milk quality
B	Discard for animal feeding
C	Technical utilization
D	Sell without limitations
E	Do the product away
№	krok 2007
Topic	«Municipal hygiene»
Task	The major repair of a hospital included renewal of colour design of hospital premises because it is of great psychological and aesthetical importance; and so the walls of patient wards will be painted under consideration of:
Correct answer	Windows orientation
B	Hospital profile
C	Diseases of patients who will be staying in these wards
D	Wall reflection coefficient
E	E.Creation of cozy atmosphere
№	krok 2015, 2008
Topic	«Municipal hygiene»
Task	Maximum permissible concentration of carbon dioxide in the air is considered to be a sanitary index of air purity in a classroom. What concentration of carbon dioxide in the air is accepted as a permissible maximum?
Correct answer	0,1% - 0,07%
B	0.05%
C	0.15%
D	0.20%
E	0.30%
№	krok 2015
Topic	«Hygiene of children and adolescents»

Task	When examining the parameters of desk natural lighting in a school class it was determined that: light angle is 25°, window angle is 3°, window-to-floor area ratio is 1:4, daylight factor is 0,5%, and window-head-to-roomdepth ratio is 2. What parameter does not correspond to hygienic norms?
Correct answer	Daylight factor
B	Window angle
C	Window-to-floor area ratio
D	Window-head-to-room-depth ratio
E	Light angle
№	krok 2015
Topic	«Municipal hygiene»
Task	Caries morbidity rate is 89% among residents of a community. It is determined that fluorine content in water is 0,1 mg/l. What preventive measures should be taken?
Correct answer	Water fluorination
B	Tooth brushing
C	Fluorine inhalations
D	Sealant application
E	Introduce more vegetables to the diet
№	krok 2015
Topic	«Municipal hygiene»
Task	In river-side urban community there was an outbreak of hepatitis type A possibly spread by water. What indexes of river water quality can confirm this theory?
Correct answer	Coliphage number
B	Colibacillus index
C	Oxidability
D	Non-icteric leptospirosis agent
E	Fecal coliform bacteria index
№	krok 2015
Topic	«Municipal hygiene»
Task	In order to study impact of microclimate on the human organism it is necessary to make systematic observation of air temperature during the period of 3 days. Choose a device that will allow to make the most precise temperature records:
Correct answer	Thermograph

B	Alcohol thermometer
C	Mercury thermometer
D	August's psychrometer
E	Assmann psychrometer
№	krok 2015
Topic	«Municipal hygiene»
Task	For a long time to eradicate weeds on agricultural lands herbicides retaining in environment have been used. Point out the most probable way of herbicides reaching human organism from soil:
Correct answer	Soil-plants-human
B	Soil-microorganisms-human
C	Soil-animals-human
D	Soil-protozoa-human
E	Soil-insects-human
№	krok 2015, 2013, 2012
Topic	«Hygiene of nutrition»
Task	Hygienic assessment of a sample taken from the batch of grain revealed 2% of grains infected with microscopic Fusarium fungi. On the grounds of laboratory analyses this batch of grain should be:
Correct answer	Sold without restrictions
B	Tested for toxicity
C	Used for forage production
D	Used for ethanol production
E	Destroyed
№	krok 2015, 2013, 2012
Topic	«Hygiene of nutrition»
Task	What juice should be included in a complex drug and dietary therapy for patients with gastric ulcer or duodenal ulcer and increased gastric juice acidity in order to accelerate the ulcer healing?
Correct answer	Potato, potato and carrot
B	Apple, birch and apple
C	Pumpkin
D	Cabbage, cabbage and carrot
E	Celery, parsley

№	Krok 2014
Topic	«Hygiene of patient care institutions»
Task	In one of the surgical departments the quality assurance testing of sterilization of surgical instruments was performed. After an instrument had been treated with 1% phenolphthalein, the solution turned pink. This indicates that the instrument has:
Correct answer	Synthetic detergent residues
B	Residual blood
C	Drugs residues
D	Residual tissue
E	Disinfectant residues
№	krok 2014
Topic	«Hygiene of patient care institutions»
Task	In one of the surgical departments the quality assurance testing of sterilization of surgical instruments was performed. After an instrument had been treated with 1% phenolphthalein, the solution turned pink. This indicates that the instrument has:
Correct answer	Synthetic detergent residues
B	Residual blood
C	Drugs residues
D	Residual tissue
E	Disinfectant residues
№	krok 2014
Topic	«Hygiene of children and adolescents»
Task	Study of natural illumination for a workplace in a secondary school classroom revealed that the angle of sunlight incidence was 25° window opening angle - 3° , window-to-floor area ratio - 1:4, daylight ratio - 0,5%, depth ratio - 2. What indicators do not meet hygienic standards?
Correct answer	Daylight ratio
B	Window opening angle
C	Window-to-floor area ratio
D	Depth ratio
E	Angle of incidence
№	krok 2014
Topic	«Hygiene of nutrition»

Task	Bakers at bread production work in conditions of high temperature and high heat radiation. What is used to increase the body's resistance to the unfavorable effects of these harmful work environment factors?
Correct answer	Vitamin preparations
B	Milk
C	Pectin
D	Therapeutic and preventive diet № 1
E	Therapeutic and preventive diet number № 3
№	krok 2014, 2013
Topic	«Municipal hygiene»
Task	In an urban settlement situated on the riverbank, an outbreak of hepatitis A was registered. The disease might have water origin. This assumption can be confirmed by growth of the following values of water quality:
Correct answer	Number of coli-phages
B	Escherichia coli index
C	Oxidability
D	Presence of benign leptospirosis pathogen
E	Index of fecal coli-forms
№	krok 2014
Topic	«Hygiene of children and adolescents»
Task	Public nurseries are designed as a single or several one- or two-storey buildings linked by covered walkways. Planning the structure of preschool institutions is based upon the following principle:
Correct answer	Principle of group isolation
B	Principle of autonomy
C	Principle of age distribution
D	Principle of sex distribution
E	Principle of age-sex distribution
№	krok 2014, 2013
Topic	«Hygiene of patient care institutions»
Task	A city somatic hospital with 300 beds has a main building which houses the therapeutic and surgical departments. Several separate buildings house the maternity, pediatric and radiologic departments that are connected to the main building by underground walkways and above-ground covered skybridges. Specify the building system of the hospital:
Correct answer	Central-unit

B	Centralized
C	Decentralized
D	Free
E	Combined
№	krok 2014
Topic	«Municipal hygiene»
Task	Carpathian region is characterized by permanently high (over 80%) air humidity. In the cold season the population of this region feels very cold at moderately low temperatures. This is due to an increase in the heat transfer by:
Correct answer	Convection
B	Emission
C	Evaporation
D	Conduction
E	Radiation
№	44) krok 2014
Topic	«Radiation hygiene»
Task	A family lives in the town situated within the zone of radiation pollution. A 6-year-old child had been ill with ARVI for 19 days. The child was undergoing outpatient treatment and was nursed by his mother, a cafe worker. Specify the order of disability examination:
Correct answer	Sick leave is granted for the entire period of the child's illness
B	Sick leave is granted for a total of 14 days, and after that period is over, a carer's leave certificate is issued
C	Sick leave is not granted, only a carer's leave certificate is issued
D	Sick leave is granted for 14 days, after this period is over, no document is issued
E	Sick leave is granted for 7 days, after this period is over, a carer's leave certificate is issued
№	krok 2014
Topic	«Hygiene of patient care institutions»
Task	A hospital nutrition unit received a batch of beef. Sanitation physician examined the meat and revealed the presence of 5 bladder worms per 40 cm ² of meat. Give the hygienic assessment of meat:
Correct answer	Liable to technical utilization
B	Conditionally admissible
C	Adulterated
D	Good-quality
E	Poor-quality

№	krok 2014
Topic	«Hygiene of patient care institutions»
Task	Evaluation results of sanitary and hygiene conditions in a 4-bed ward were as follows: ward area - 30 m ² , height - 3,2 m, temperature - 20° C, humidity - 55%, air velocity - 0,1 m/s, window-to-floor area ratio - 1:5, daylight ratio - 0,6%, concentration of carbon dioxide in the air - 0,1%. Which of the given indicators does not meet hygienic requirements?
Correct answer	Daylight ratio
B	Air velocity
C	Window-to-floor area ratio
D	Concentration of carbon dioxide in the air
E	Ward area
№	KROK-2020
Topic	Occupational Hygiene
Task	30% of the workers, who polish the art glass, using an abrasive disk, and have a long record of employment, are diagnosed with ulnar neuritis, 21% - with vegetative polyneuritis, and 12 % - with vegetomyofascitis of the upper limbs. These pathologies are associated with the following harmful factor:
Correct answer	Vibration
B	Microclimate
C	Electromagnetic field
D	Dust
E	Noise
№	KROK-2020
Topic	Community hygiene
Task	In a pediatric clinic, located in a rural area, there are 9 children, who simultaneously fell ill. The following signs were detected: low physical activity, acro-cyanosis of the nasolabial triangle and fingertips, mucosal cyanosis, tachycardia, dyspnea. It was determined that all the sick children were fed with a formula that was dissolved in the water taken from a dug well. Laboratory analysis revealed high levels of methemoglobin in the blood of the children. These signs can be caused by increased content of a certain element in the water. Name this element:
Correct answer	Nitrates
B	Sulfates
C	Methylmercury
D	Lead

E	Selenium
№	KROK-2020
Topic	Hospital hygiene
Task	What modern organization method can provide the patients in the remote settlements with timely access to quality medical aid and such medical services as consulting, diagnostics, and treatment, especially in the situations when time and distance are crucial ?
Correct answer	Air medical services
B	Ambulance services
C	Field medical teams
D	Telemedicine
E	Mobile communication
№	KROK-2020
Topic	Occupational Hygiene
Task	A man works in casting of nonferrous metals and alloys for 12 years. In the air of working area there was registered high content of heavy metals, carbon monoxide, and nitrogen. During periodic health examination the patient presents with asthenovegetative syndrome, sharp abdominal pains, constipations, pain in the hepatic area. In urine: aminolevulinic acid and coproporphyrin are detected. In blood: reticulocytosis, low hemoglobin level. Such intoxication is caused by:
Correct answer	Lead and lead salts
B	Zinc
C	Nitric oxide
D	Tin
E	Carbon monoxide
№	KROK-2020
Topic	Food hygiene
Task	On laboratory investigation of a pork sample there is 1 dead trichinella detected in 24 sections. This meat should be:
Correct answer	Handed over for technical disposal
B	Processed and sold through public catering network.
C	Allowed for sale with no restrictions
D	Processed for boiled sausage production
E	Frozen until the temperature of -10°C is reached in the deep layers, with subsequent exposure to cold for 15 days.
№	KROK-2020
Topic	Occupational health

Task	Employees work in conditions of high dust concentration. Certain chemical(Silicon dioxide content) and physical properties of dust aerosols contribute to the development of occupational dust-induced diseases. What is the main physical property of dust aerosols?
Correct answer	Dispersion
B	Electric charge
C	Magnetization
D	Ionization
E	Solubility
№	KROK-2020
Topic	Occupational health
Task	A 39-year-old man, a battery attendant, suddenly developed weakness, loss of appetite, nonlocalized colicky abdominal pains, and nausea. Objectively, his skin is gray; there is a pink-fray stripe on his gums; the abdomen is soft and sharply painful. Blood test detected erythrocytes with basophilic stippling and anemia. The patient has a history of peptic ulcer disease of the stomach. Constipation occur each 3-4 days. What is the most likely provisional diagnosis?
Correct answer	Saturnism(lead poisoning)
B	Chronic alcoholism
C	Perforation of gastric ulcer
D	Acute appendicitis
E	Acute cholecystitis
№	KROK-2020
Topic	Food hygiene
Task	During regular medical examination a lyceum student presents with signs of cheilitis that manifests as epithelial maceration in the area of lip seal. The lips are bright-red with single vertical cracks covered with brown-red scabs. These clinical signs are most likely caused by insufficient content of the following in the diet:
Correct answer	Riboflavin
B	Ascorbic acid
C	Calciferol
D	Retinol
E	Thiamine
№	KROK-2020
Topic	Food hygiene

Task	Children from a certain township present with brittle teeth, malocclusion, dental enamel erosions, and dental pigmentation that looks like yellow-brown spots. What is the likely cause of this presentation?
Correct answer	High levels of fluorine in water
B	High level of sulfates in water
C	High level of nitrates
D	Low levels of fluorine in water
E	Low levels of sulfates in water
№	krok 2018
Topic	«Municipal hygiene»
Task	Caries morbidity rate is 89% among residents of a community. It is determined that fluorine content in water is 0.1 mg/L. What preventive measures should be taken?
Correct answer	Water fluorination
B	Tooth brushing
C	Fluorine inhalations
D	Sealant application
E	Introduce more vegetables to the diet
№	krok 2018
Topic	«Hygiene of labour»
Task	A 39-year-old man, a battery attendant, suddenly developed weakness, loss of appetite, nonlocalized colicky abdominal pains, and nausea. Objectively his skin is gray; there is pink-gray stripe on his gums; the stomach is soft and sharply painful. Blood test detected erythrocytes with basophilic stippling and anemia. The patient has a history of peptic ulcer disease of the stomach. There is tendency to constipation. What is the most likely provisional diagnosis?
Correct answer	Saturnism (lead poisoning)
B	Acute appendicitis
C	Perforation of gastric ulcer
D	Acute cholecystitis
E	
№	krok 2018, krok 2019
Topic	«Hygiene of nutrition»
Task	A 9-month-old infant presents with delayed tooth eruption and fontanel closure, weakness, and excessive sweating. What type of hypovitaminosis is the most likely in this child?

Correct answer	Hypovitaminosis <i>D</i>
B	Hypovitaminosis <i>C</i>
C	Hypovitaminosis <i>B</i> ₁
D	Hypovitaminosis <i>B</i> ₆
E	Hypovitaminosis <i>A</i>
№	krok 2018
Topic	«Hygiene of nutrition»
Task	A group of 5 had been resting in a forest, they were drinking alcohol and eating canned mushrooms and cured fish. The next day two of them were hospitalized with disturbed vision, swallowing and respiration; the third one presented with acute general weakness and dry mouth. The remaining two were healthy. A tick was detected on the skin of one of the healthy group members. What is the most likely diagnosis?
Correct answer	Botulism
B	Tick-borne encephalitis
C	Alcohol poisoning
D	Mushroom poisoning
E	Lyme borreliosis
№	krok 2018 krok 2019
Topic	«Hygiene of nutrition»
Task	In April during the medical examination of various population groups, 27% of individuals presented with low working ability and rapid fatigability. The following symptoms were observed in the affected individuals: swollen friable gingiva that bleeds when pressed, hyperkeratosis follicularis not accompanied by skin dryness. These symptoms most likely result from the following pathology:
Correct answer	<i>C</i> -hypovitaminosis
B	Parodontosis
C	<i>A</i> -hypovitaminosis
D	<i>1</i> -hypovitaminosis
E	Polyhypovitaminosis
№	krok 2018
Topic	«Hygiene of nutrition»

Task	During regular check-up the doctor examines a young woman, a student, with height of 162 cm and weight of 59 kg. She complains that in the evening she becomes unable to see clearly the objects around her. Objectively her skin is dry, presents with hyperkeratosis. Her daily ration has the following vitamin content: vitamin A - 0.5 mg, vitamin B ₁ - 2.0 mg, vitamin B ₂ - 2.5 mg, vitamin B ₆ - 2 mg, vitamin C - 70 mg. Make the diagnosis:
Correct answer	A -hypovitaminosis
B	B ₁ -hypovitaminosis
C	B ₂ -hypovitaminosis
D	B ₆ -hypovitaminosis
E	C -hypovitaminosis
№	krok 2018
Topic	«Hygiene of labour»
Task	A man works in casting of nonferrous metals and alloys for 12 years. In the air of working area there was registered high content of heavy metals, carbon monoxide, and nitrogen. During periodic health examination the patient presents with asthenovegetative syndrome, sharp pains in the stomach, constipations, pain in the hepatic area. In urine: aminolevulinic acid and coproporphyrin are detected. In blood: reticulocytosis, low hemoglobin level. Such intoxication is caused by:
Correct answer	Lead and lead salts
B	Tin
C	Carbon monoxide
D	Nitric oxide
E	Zinc
№	krok 2018
Topic	<u>General Hygiene</u>
Task	During assessment of work conditions at the factory manufacturing mercury thermometers, the content of mercury vapors in the air of the working area is revealed to exceed the maximum concentration limit. Specify the main pathway of human body exposure to mercury:
Correct answer	Respiratory organs
B	Intact skin
C	Damaged skin
D	Gastrointestinal tract
E	Mucous tunics
№	krok 2018

Topic	General Hygiene
Task	A population of a small town often presents with registered cases of juvenile cardiomyopathy, atherosclerosis, hypertension, endocrinopathy, chronic dermatitis, and arthralgia - signs of Keshan disease. What is the most likely cause of this pathology?
Correct answer	Selenium deficiency in the environment
B	Excessive iron in the environment
C	Strontium deficiency in the environment
D	Excessive zinc in the environment
E	Excessive manganese in the environment
№	krok 2018
Topic	«Hygiene of nutrition»
Task	A 60-year-old woman started feeling weakness, vertigo, rapid fatigability during the last year. Recently she has developed dyspnea and paresthesia observed. Objectively: skin and mucous membranes are pale and icteric. Lingual papillae are smoothed out. Liver and spleen are at the edge of costal arch. Blood test: Hb- 70 g/L, erythrocytes - $1.7 \cdot 10^{12}$ /L, blood color index - 1.2, macrocytes. What drug can be prescribed on pathogenetic grounds?
Correct answer	Vitamin B_{12}
B	Vitamin B_6
C	Ascorbic acid
D	Iron preparations
E	Vitamin B_1
№	krok 2018
Topic	«Hygiene of labour»
Task	An excavator operator with 20 years of work experience at the opencast ore mine undergoes regular medical examination. He presents with signs of pneumoconiosis. What type of pneumoconiosis is the most likely in this case?
Correct answer	Siderosis
B	Silicosis
C	Anthracois
D	Asbestosis
E	Silicatosi
№	krok 2019
Topic	«Municipal hygiene»

Task	In the air of the feed kitchen at the poultry factory: at the area where formula feed is being mixed, the dust concentration reaches 200 mg/m ³ . Air microflora is represented predominantly by Aspergillus and Mucor fungi. What effect determines pathogenic properties of the dust?
Correct answer	Allergenic
B	Mutagenic
C	Toxic
D	Teratogenic
E	Fibrogenic
№	krok 2019
Topic	«Hygiene of nutrition»
Task	In the factory cafeteria there was an outbreak of food poisoning. Clinical presentation indicates staphylococcal etiology of this disease. 15 people are sick. To confirm the diagnosis of food poisoning, samples need to be sent to the laboratory: What samples should be obtained for analysis?
Correct answer	Vomit masses
B	Blood for hemoculture
C	Urine
D	Saliva
E	Blood (complete blood count)
№	krok 2019
Topic	«Hygiene of nutrition»
Task	A 20-year-old man was hospitalized on the 9th day of the disease. He attributes his disease to eating of insufficiently thermally processed pork. At its onset this condition manifested as periorbital edemas and fever. Objectively his body temperature is 38,5°C. The face is puffy and the eyelids are markedly swollen. Palpation of gastrocnemius muscles is sharply painful. Blood test shows hypereosinophilia. What is the etiology of this disease?
Correct answer	Trichinella
B	Echinococci
C	Leptospira
D	Ascarididae
E	Trichuris
№	krok 2019
Topic	«Hygiene of nutrition»

Task	A 45—year—old man, a farmer, presents with acute onset of a disease. He complains of headache, high temperature, pain in the gastrocnemius muscles, icteric face, and dark urine. Objectively: body temperature – 38 C, blood pressure — 100/70 mm Hg, conjunctival hemorrhages. hepatosplenomegaly and oliguria. What is the most likely provisional diagnosis?
Correct answer	Leptospirosis
B	Viral hepatitis
C	Brucellosis
D	Pseudotuberculosis
E	Trichinosis
№	krok 2019
Topic	«Hygiene of labour»
Task	A 38—year—old woman works in flax processing, she dries flax. She came to the hospital complaining of difficult breathing, constricting sensation in her chest, and cough attacks. These signs appear on the first day of her working week and gradually diminish on the following days. What respiratory disease is likely in this case?
Correct answer	Byssinosis
B	Asthmatic bronchitis
C	Bronchial asthma
D	Allergic rhinopharyngitis
E	Silicosis
№	krok 2019, 2018
Topic	«Hygiene of nutrition»
Task	A 9-month-old infant presents with delayed tooth eruption and fontanel closure, weakness, and excessive sweating. What type of hypovitaminosis is the most likely in this child?
Correct answer	Hypovitaminosis D
B	Hypovitaminosis A
C	Hypovitaminosis B1
D	Hypovitaminosis B6
E	Hypovitaminosis C
№	krok 2019
Topic	«Hygiene of labour»

Task	A 43—year-old man, a coal—face worker with 15—year-long record of work. Complains of cough, thoracic pain, and dyspnea. The cough is mild. usually dry, occurs mostly in the morning. The pain is localized in the interscapular region and aggravates during a deep intake of breath. Dyspnea occurs during physical exertion. Vesicular respiration in the lungs is weakened. Heart sounds are rhythmic, heart rate is 86/min.. blood pressure is 135/80 mm Hg. The abdomen is soft and painless. X- ray shows micronodular pulmonary fibrosis. Make the provisional diagnosis:
Correct answer	Siderosis
B	Berylliosis
C	Metal pneumoconiosis
D	Carboconiosis
E	Byssinosis
№	krok 2019
Topic	«Hygiene of labour»
Task	A woman has been working as a polisher for a year and a half. Her workstation is equipped with a grinding machine (grinding wheels). She complains of white discoloration of her fingers and toes that appears when she is nervous. Objectively there are no changes in the coloration of the distal segments of her limbs. Grip strength measured with a dynamometer is 25 kg, algesimetry findings are 0.1; 0.3; 0.5. Cold stimulus is extremely positive on the upper and lower limbs. Internal organs are without pathologies. Make the diagnosis:
Correct answer	Vibration disease
B	Polyneuritis
C	Raynaud disease
D	Raynaud syndrome
E	Syringomyelia
№	krok 2019, krok 2018
Topic	«Hygiene of nutrition»
Task	In April during the medical examination of various population groups, 27% of individuals presented with low working ability and rapid fatigability The following symptoms were observed in the affected individuals: swollen friable gingiva that bleeds when pressed, hyperkeratosis follicularis not accompanied by skin dryness. These symptoms most likely result from the following pathology:
Correct answer	C-hypovitaminosis.
B	Polyhypovitaminosis
C	Parodontosis
D	B 1-hypovitaminosis

E	A-hypovitaminosis
№	krok 2019
Topic	«Hygiene of nutrition»
Task	A 24-year-old woman, a kindergarten teacher, has been sick for 2 days already. Disease onset was acute. She presents with elevated body temperature up to 38.0°C, pain attacks in her lower left abdomen, liquid stool in small amounts with blood and mucus admixtures 10 times a day. Pulse — 98/min., blood pressure - 110/70 mm Hg. Her tongue is moist and coated with white deposits. The abdomen is soft, the sigmoid colon is painful and spastic. Make the provisional diagnosis:
Correct answer	Shigellosis
B	Escherichiosis
C	Salmonellosis
D	Yersiniosis
E	Rotavirus infection
№	krok 2019
Topic	«Hygiene of nutrition»
Task	During regular medical examination a lyceum student presents with signs of cheilitis that manifests as epithelial maceration in the area of lip seal. The lips are bright-red. With single vertical cracks covered with brown- red scabs. These clinical signs are most likely caused by insufficient content of the following in the diet:
Correct answer	Riboflavin
B	Ascorbic acid
C	Retinol
D	Thiamine
E	Calciferol
№	KROK-2021
Topic	Occupational Hygiene
Task	A 45-year-old man, provisionally diagnosed with a transient ischemic attack, was brought by an ambulance from an aniline-producing factory. Objectively, his skin and mucosa are cyanotic. His speech is dysarthric. The man is disoriented in space. His blood test shows the following: erythrocytes - $4.6 \cdot 10^{12}/L$, Hb - 143 g/L, color index - 0.9, leukocytes - $5.6 \cdot 10^9/L$, Heinz bodies - 14%, reticulocytes - 18%, methemoglobin - 36%, ESR - 5 mm/hour. The patient was diagnosed with a moderately severe acute aniline intoxication. What antidote agent will be the most effective in this case?
Correct answer	Methylene blue
B	Sodium thiosulfate

C	Pentacin (Calcium trisodium pentetate)
D	Succimer
E	Desferal (Deferoxamine)
№	KROK-2021
Topic	Occupational Hygiene
Task	A 30-year-old man, a cable presser, complains of inertness, memory problems, and pain in his limbs. Objectively, he presents with skin pallor, anemia, reticulocytosis, basophilic stippling of erythrocytes, and high levels of porphyrin in urine. This man has the signs of the following disease:
Correct answer	Saturnism
B	Siderosis
C	Berylliosis
D	Mercurialism
E	Asbestosis
№	KROK-2021
Topic	Occupational Hygiene
Task	A 43-year-old man, a coal-face worker with a 15-year-long record of work, complains of cough, thoracic pain, and dyspnea. The cough is mild, usually dry, occurs mostly in the morning. The pain is localized in the interscapular region and aggravates during a deep intake of breath. Dyspnea occurs during physical exertion. Vesicular respiration in the lungs is weakened. Heart sounds are rhythmic, heart rate is 86/min., blood pressure is 135/80 mm Hg. The abdomen is soft and painless. X-ray shows micronodular pulmonary fibrosis. Make the provisional diagnosis:
Correct answer	Carboconiosis
B	Siderosis
C	Berylliosis
D	Byssinosis
E	Metal pneumoconiosis
№	KROK-2021
Topic	Occupational Hygiene
Task	A quarry produces granite, which is then broken into pieces with explosives and manual pneumatic hammers. When breaking granite rocks and drilling blast holes for the explosives, the workers are exposed to local vibration of medium and high frequency. Vibration measurement revealed that it exceeds the maximum permissible level. What specific changes can develop in the workers as the result of prolonged exposure to such working conditions?

Correct answer	Sensory polyneuropathy with angiospastic syndrome
B	Hand dermatitis
C	Psychasthcnia
D	Sensorineural hearing loss
E	Somatoform autonomic dysfunction
№	KROK-2021
Topic	«Hygiene of children and adolescents»
Task	Anthropometric measurements arc widely used to study the physical development of children and teenagers. What measurement is the functional one?
Correct answer	Measuring the vital capacity of the lungs
B	Weight measurement
C	Determining the shape of the backbone
D	Determining the shape of the chest
E	Height measurement
№	KROK-2021
Topic	Food hygiene
Task	A 55-year-old woman complains of a recurrent diarrhea, peeling and pigmentation of the exposed areas of her skin (neckhands, and feet), irritability, and anxiety. What vitamin deficiency is it?
Correct answer	Nicotinic acid
B	Thiamine
C	Riboflavin
D	Retinol
E	Pantothenic acid
№	KROK-2021
Topic	Food hygiene
Task	Daily diet of a 10-year-old girl contains the following: vitamin B _x - 1.2 mg, vitamin B ₂ - 0.6 mg, vitamin B ₆ - 1.4 mg, vitamin PP -15 mg, vitamin C - 65 mg. Assessment of the girl's nutrition status reveals that she has cheilosis, glossitis, angular cheilitis, and conjunctivitis. The girl is likely to have:
Correct answer	A. Vitamin B ₂ hypovitaminosis
B	B. Vitamin C hypovitaminosis
C	C. Vitamin B1 hypovitaminosis

D	D. Vitamin B ₆ hypovitaminosis
E	E. Vitamin PP hypovitaminosis
№	KROK-2021
Topic	Community hygiene
Task	A regional cardiologist is given a task to develop a plan for preventive measures aimed at decreasing cardiovascular mortality rates. What measures should be planned for secondary prevention?
Correct answer	Prevention of recurrences and complications
B	Referring patients for sanatorium-and- spa treatment
C	Referring patients for inpatient treatment
D	Prevention of diseases
E	Optimization of lifestyle and living conditions
№	KROK-2021
Topic	Community hygiene
Task	To fight against the tobacco smoking, Ukraine has ratified the World Health Organization Framework Convention on Tobacco Control and prohibited public smoking. What type of prevention is it?
Correct answer	Public prevention
B	Individual prevention
C	Primary prevention
D	Secondary prevention,
E	Tertiary prevention
№	KROK-2021
Topic	«Hygiene of children and adolescents»
Task	During medical examination of high and middle school students, the doctors were assessing correlation between biological and calendar age of the school students based on the following criteria: height growth rate per year, ossification of the carpal bones, the number of permanent teeth. What additional development criterion should be assessed at this age?
Correct answer	Development of secondary sex characteristics
B	Body mass
C	Vital capacity of lungs
D	Chest circumference
E	Hand strength
№	KROK-2021

Topic	Occupational Hygiene
Task	When investigating a case of mass poisoning, it was determined that the car mechanics, who tested diesel engines in a repair bay with a broken exhaust ventilation, at the end of their working day developed the following signs: headache, nausea, vomiting, tinnitus, labile pulse. Objectively, their skin and mucosa are cherry-red. What toxic factor has caused mass poisoning of the car mechanics?
Correct answer	Carbon monoxide
B	Carbon disulfide
C	Nitrogen oxide
D	Sulfur dioxide
E	Carbon dioxide
№	KROK-2021
Topic	Community hygiene
Task	Analysis of the population morbidity in a village, located near a chemical factory, shows that within the last several years the number of gout and esophageal cancer cases has significantly increased. What pollutant of the environment is the likely cause of such dynamics?
Correct answer	Molybdenum
B	Nickel
C	Manganese
D	Strontium
E	Mercury
№	KROK-2021
Topic	Food hygiene
Task	A 38-year-old woman came to a dermatologist complaining of dry and peeling skin. Examination reveals a papular rash and fine peeling on the extensor surfaces of her knee and elbow joints; in the area of hair follicles there are wax-colored nodules that rise from the skin. These clinical signs are likely caused by insufficient dietary intake of the following substance:
Correct answer	Riboflavin
B	Ascorbic acid
C	Pyridoxine
D	Retinol
E	Thiamine
№	KROK-2021
Topic	Occupational Hygiene

Task	A 50-year-old man complains of general weakness, dizziness, periodical episodes of unconsciousness, and an intense pain in the small of his back and right subcostal region. These signs appeared after an accident at a paint factory, where he works. His skin is earth- gray and his sclerae are icteric. He has acrocyanosis. His blood pressure is 100/60 mm Hg. His heart sounds are muffled. His liver is +3 cm and has a dense edge. Blood test shows the following: erythrocytes - $2.0 \cdot 10^{12}/L$, Hb - 90 g/L, Heinz-Ehrlich bodies, leukocytes - $5.6 \cdot 10^9/L$, ESR - 15 mm/hour, methemoglobin - 62%, total bilirubin - 84.0 $\mu\text{mol}/L$, indirect bilirubin - 71.7 $\mu\text{mol}/L$. What is the most likely diagnosis in this case?
Correct answer	Acute aniline poisoning
B	Acute viral hepatitis
C	Chronic cyanide poisoning
D	Acute toluene poisoning
E	Acquired hemolytic anemia
№	KROK-2021
Topic	Community hygiene
Task	In the computer lab of the research sector at a polytechnic institute, the workstations of laboratory technicians are located close in front of the screens. Throughout their whole working day, the technicians are exposed to the electromagnetic waves of ultra high frequencies. Exposure to intense electromagnetic waves of such frequency is especially dangerous for the:
Correct answer	Visual analyzer
B	Pain sensitivity
C	Sensory sensitivity
D	Hearing analyzer
E	Tactile sensitivity
№	KROK-2021
Topic	Community hygiene
Task	In a city, the levels of manganese are elevated in the atmospheric air, water, and agricultural foods. What type of effect do these factors have on the health of the population?
Correct answer	Complex
B	Combined
C	Joint
D	Separate
E	Synergistic

№	KROK-2021
Topic	Food hygiene
Task	On examination a man presents with the following signs: progressing weakness, loss of working ability, rapid physical and mental fatigability, sensations of cold and hunger, and weight loss. What type of alimentary disorder is it?
Correct answer	Protein-energy undernutrition
B	Vitamin deficiency
C	Dietary fiber deficiency
D	Polyunsaturated fatty acid deficiency
E	Mineral deficiency
№	KROK-2021
Topic	Occupational Hygiene
Task	Employees work in conditions of high dust concentration. Certain chemical (silicon dioxide content) and physical properties of dust aerosols contribute to the development of occupational dust- induced diseases. What is the main physical property of dust aerosols?
Correct answer	Dispersion
B	Solubility
C	Ionization
D	Magnetization
E	Electric charge
№	KROK-2021
Topic	Occupational Hygiene
Task	40% of the workers, who polish the art glass, using an abrasive and have a long record of employment, are diagnosed with ulnar neuritis, 21% - with vegetative polyneuritis, and 12% - with vegetomyofascitis of the upper limbs. These pathologies are associated with the following harmful factor:
Correct answer	Vibration
B	Dust
C	Noise
D	Electromagnetic field
E	Microclimate
№	KROK-2021
Topic	Occupational Hygiene

Task	An industrial area has high levels of noise pollution and the air of the working area is highly polluted with sulfur anhydride. What type of harmful effect can these factors have on the body in such conditions?
Correct answer	Combined
B	Joint
C	Separate
D	Specific
E	Complex