TESTS ON THE EXAM ON "HYGIENE AND ECOLOGY" for preparation of specialists of the second (master's) level of

higher education

branch of knowledge 22 "Healthcare" speciality 221 "Dentistry"

- 1. In the air of one of production apartments of a pharmaceutical enterprise the content of antitumor medications exceeds their admissible level more than 10 times. What class of labour is considered in such conditions?
 - A. Possible
 - B. Harmful of the 1st degree
 - C. Harmful of the 2nd degree
 - D. Harmful of the 3nd degree
 - E. Harmful of the 4th degree
- 2. The results of examination of water from a mine well showed that its transparency is 35 cm, colour 40°, taste 2 points, smell 3 points, general microbial number 130. Which of the given indexes does not correspond to the hygienic requirements?
 - A. Transparency
 - B. Colour
 - C. Taste
 - D. Smell
 - E. General microbial number
- 3. The thermal comfort of workers of surgical department depends mainly on humidity and temperature of the air in an apartment. The combination of which of these factors is responsible for violation of heat emission and overheat of the organism?
 - A. High temperature and low humidity
 - B. Optimal temperature and high humidity
 - C. High temperature and high humidity
 - D. Low temperature and high humidity
 - E. Low temperature and optimal humidity
- 4. At the laboratory research of a sample of water, the presence of chlorine organic substances was determined, in particular, of chloroform. What would be expedient to use for the removal of these hazardous substances?
 - A. Electrodialyze of the water
 - B. Hyperfiltration
 - C. Aeration of the water
 - D. Respiration
 - E. Filtration
- 5. A builder executed a work outdoors on the height of 8-floor building in the conditions of cloudless sun, calm weather, increased temperature (30°C) and relative humidity 70 %. At the end of working day he felt head pain, muscular weakness, dizziness, violation of co-ordination of motions. Objectively: pulse and breathing frequency is speeded-up, temperature of body is 37,2°C. About what disease can one most probably think with such a clinical picture?
 - A. Height disease
 - B. Sun blow
 - C. Heat blow
 - D. Convulsive illness
 - E. Mountain illness

- 6. A workwoman of an accumulator workshop of a car repair service enterprise levitates from a floor for the first half of work 10 accumulators, and for the second 7, the mass is 15 kg each. Define the class of labour conditions after the indexes of weight of a labour process.
 - A. Optimal
 - B. Admissible
 - C. Harmful
 - D. Dangerous
 - E. Extreme
- 7. In determination of separate parameters of microclimate in a lecture audience it was set, that the temperature of the air was 20°C, difference between the temperature of the air and temperature of walls 2,5°C, overfalls of temperature on a horizontal line 2,5°C, on a vertical line 2,0°C, relative humidity 70 %. Which of the following indexes of microclimate have been violated in relation to the hygienical requirements?
 - A. Temperature of the air
 - B. Difference between the temperature of the air and the temperature of walls
 - C. Overfalls of temperatures on a horizontal line
 - D. Overfalls of temperatures on a vertical line
 - E. Relative humidity
- 8. Work of a machinist at one metallurgical factory requires the concentrated supervision after a technological process during 70% of his working time. For one hour it is necessary to process 175 informative signals. In emergency situations it is necessary to make quick decisions in the terms of large deficit of time, next to danger and high responsibility. Which of the following indexes of labour process is not characteristic of the described type of labour?
 - A. Intellectual load
 - B. Sensor load
 - C. Physical dynamic load
 - D. Nervous-emotional load
 - E. Significance of errors
- 9. The microclimate of an apartment is of the following parameters: temperature of the air -40° C; relative humidity -100%; rate of movement of the air -0.1 m/s; radiation temperature -80° C. Denote the most credible pathological state of the organism in such conditions:
 - A. General hyperthermia (heat-shock)
 - B. Decreased work capacity
 - C. Violation in the system of blood circulation
 - D. Violation of the respiratory system
 - E. Local hyperthermia
- 10. A surgeon of an orthopaedic department during operation, that lasts for 4 hours, leans over an operating field more than 300 times with the angle of slope more than 30°, executes work in the conditions of deficit of time and with the large emotional loading. What class is it possible to take the terms of his labour to?
 - A. Admissible
 - B. Harmful of the 1st degree
 - C. Harmful of the 2nd degree
 - D. Harmful of the 3rd degree
 - E. Optimal
- 11. At the inspection of servicemen during implementation of an educational task at one of submarine boats, they complained on the head pain, tachycardia, and decline of work capacity. During laboratory examination acidosis and increased content of carbhaemoglobin was determined. What level of CO2 (%) in the air could result in these clinical signs?
 - A. 0,1-0,2
 - B. 1-2
 - C. 4-5
 - D. 8-10

- 12. A surgeon executes an operation duration of which makes 3 hours. The working pose is standing in the inclined position up to 30° that takes 60% of total time. Common time of concentration makes up to 90%. During the operation the surgeon must make decisions of the high responsibility concerning patient's life in the conditions of deficit of time. Which of the following indexes characterize hardness of the labour process?
 - A. Time of concentration
 - B. Working pose
 - C. Deficit of time
 - D. Rate of responsibility
 - E. Duration of the operation
- 13. A boy of 13 years old suffers from bronchoectatic illness in the stage of subcompensation, every year he has pneumonia. What group of health can the boy be taken to?
 - A. The 5th group of health
 - B. The 4th group of health
 - C. The 3rd group of health
 - D. The 2nd group of health
 - E. The 1st group of health
- 14. For estimation of the degree of school maturity of 6-years-old children the diagnostic test after Kern-Irasek was applied, pursuant to which the total assessment of the accomplishment of task made 3–4 points. What is the degree of school readiness at the inspected children?
 - A. High;
 - B. Middle;
 - C. Low;
 - D. They are not ready after the level of physical development;
 - E. They are ready after the indexes of physical development.
- 15. For consumption is used the water with smell of 0 marks, colour– 20° , transparency 32 sm, turbidness 0,7 mg/dm³. Give hygienical estimation to organoleptic properties of the water.
 - A. Increased turbidness
 - B. Decreased transparency
 - C. The level of all indexes corresponds to hygienical norms
 - D. Increased colour
 - E. Intensity of a strange smell exceeds admissible level
- 16. During research of the content of carbon dioxide in hospital chambers for adults it was set, that in a chamber № 1 its concentration was 0,20 % № 2–0,15 % № 3–0,09 % № 4–0,3 % № 5–0,25 %. At what chamber the content of carbon dioxide is at the admissible level?
 - A. № 1
 - B. № 2
 - C. № 3
 - D. № 4
 - E. № 5
- 17. In the operating-room of a surgical department of a first-aid hospital the parameters of light microclimate are the following: the angle of the light falling 27° , the angle of the light opening 4° , the coefficient of the natural illumination 2.0%, the light coefficient 1:6, the luminosity of the working field by shadeless lamps 6000 lc. Which of the following parameters needs correction?
 - A. The light coefficient
 - B. The angle of opening
 - C. The coefficient of natural illumination
 - D. The angle of the light falling
 - E. The luminosity of the working field

- 18. For determination of physiological dose of UV-radiation the Horbachov's biodozimeter was applied. Erythemous dose after a window № 3 in 11 hours after irradiation was 4 minutes. What is physiological dose UV-radiation, minutes?
 - A. 0,5-1
 - B. 1-2
 - C. 1,5-3
 - D. 2-4
 - E. 3-6
- 19. The water with the following indexes is used: the common microbe number 35, index BGCP-1, the number of intestinal helminth-3, the number of the pathogenic intestinal Protozoa-0. Give hygienical estimation to the indexes of epidemic safety of water.
 - A. Level of indexes corresponds to hygienical norms
 - B. Increased the common microbe number
 - C. Increased index BGCP
 - D. Increased the number of intestinal helminth
 - E. Increased content of the pathogenic intestinal Protozoa
- 20. At research of a drinking-water sample the increase of content of only nitrates connections is determined. What character of contamination of water does it testify about?
 - A. With oil products
 - B. With sewage from cattle farms
 - C. With products of mineral origin
 - D. With the products of sewage origin
 - E. With products of vegetable origin
- 21. In the explored sample of water content of iron was at the level of 0,2 mg/dm³, fluorine 1,5 mg/dm³, general mineralization– 950 mg/dm³, chlorides 500 mg/dm³, general hardness– 6,0 mmol/dm³. What method of conditioning is it necessary to use for its improvement?
 - A. Removing of iron
 - B. Removing of fluorine
 - C. Disinfection
 - D. Desalination
 - E. Making water softer
- 22. Laboratory research of water has been conducted. Results are the following: smell 2 points, transparency 30 sm after the Snelenn's font, colour 20° C, dry remainder 900 mg/dm³, sulfates 250 mg/dm³, chlorides 250 mg/dm³, oxidizing 4 mg/dm³, microbe number 100, fluorine 1,5 mg/dm³, nitrates 10 mg/dm³, helminthes eggs 8 in 25 dm³ of water. What indexes of water do not respond to the requests of the document "Hygienical requirements to quality of water of the centralized supply?"
 - A. Those concerning parasites
 - B. Organoleptic
 - C. Toxicological
 - D. Microbiological
 - E. Physical and chemical
- 23. The habitants of a mountain settlement use for their economic and drinkable necessities an underground source which appeared at the cut of aquiferous horizon as a result of falling of relief on the slope of a mountain. How is this source of water-supply named?
 - A. Artesian
 - B. Brook
 - C. Downward
 - D. Upward
 - E. River

- 24. During planned prophylactic medical examination of miners the violation of tissue nutrition, angiospasm, decline of all types of skin sensitiveness in distal parts of the hands was determined. What professional harmfulness could be the reason of such symptoms?
 - A. Noise
 - B. Electromagnetic radiation
 - C. Laser radiation
 - D. Vibration
 - E. Radioactive radiation
- 25. At research of drinking-water its smell was estimated at 1 point, taste -1 point, colour -10° , general hardness 7 mmol/dm³, iron 0,7 mg/dm³. Which from the higher mentioned indexes needs correction?
 - A. Smell
 - B. Taste
 - C. Colour
 - D. General hardness
 - E. Iron
- 26. In a settlement, the building of a public well is being projected. At research of different water samples delivered to a laboratory from 5 bored mining holes, it was determined that: in the 1st sample GMN makes 50 KUO/sm³, 2 cists /25 dm³; in the 2nd were found larvae of intestinal helminth 3 larvae/25 dm³, coliforming microorganisms 4 CFO/dm³; in the 3rd the activity of β–emitter makes 1,0 Bk/dm³, activity of α–emitter 0,3 Bk/dm³; in the 4th were found nitrates in the dosage of 80 mg/dm³, lead 0,01 mg/dm³; in the 5th GMN makes 80 CFO/dm³, coliforming microorganisms 2 CFO/dm³. From which of these mining holes water is suitable for consumption?
 - A. 1
 - B. 2
 - C. 3
 - D. 4
 - E. 5
- 27. For coverage of the daily energetic expenditures which make 3000 kcal, the medical assistant of the first-aid station daily consumes 350 kcal due to albumens, in that number 150 kcal due to the albumens of vegetable origin, 750 kcal due to fats, including 75 kcal due to fats of vegetable origin. What measures must be conducted for correction of feed?
 - A. Decrease of the common amount of fats
 - B. Increase of the amount of albumens of animal origin
 - C. Increase of the common amount of fats
 - D. To multiply the common amount of albumens
 - E. Increase of the amount of fats of vegetable origin
- 28. A woman of 60 years old with a normal body mass gets with day's ration 50 g of albumen, 50 g of fat, and 300 g of carbohydrates? What energetic value of ration is due to carbohydrates?
 - A. 1300 kcal
 - B. 1000 kcal
 - C. 450 kcal
 - D. 1200 kcal
 - E. 500 kcal
- 29. At the analysis of food ration at an enterprise, where women work, it was set, that the food ration contains the following amounts of mineral matters (mg): Ca-900, P 1200, Mg-350, Fe-17, Zn-15. Which of these microelements is in deficit in the food ration?
 - A. Ca
 - B. Fe
 - C. Zn
 - D. Mg
 - E. P

- 30. The energetic value of a surgeon day's ration makes 3000 kcal at 3-times per day diet. Thus on breakfast he receives 15%, on dinner-45%, on supper-40% from the energetic value of the ration. How must a diet be changed, so it corresponds to the hygienic requirements?
 - A. Decrease of caloric content of supper
 - B. Increase of the caloric content of dinner
 - C. Decrease of the caloric content of dinner
 - D. Distribution of the caloric content equally between mealtimes
 - E. Decrease the caloric content of breakfast
- 31. A worker of a factory on paints manufacturing complaints on unpleasant taste in the mouth, spasmodic stomach-aches, constipation, which are not coped with laxatives. Objectively: the skin of face is of palegreyish colour, there is a red-grey strip on the edge of the gums near foreteeth. At laboratory research the following changes were determined: in the blood anaemia, reticulocitosis, basophile graininess of red corpuscles, increased content of bilirubine; in urine content of porfirins is increased. What disease is a worker suffering from?
 - A. Chronic lead poisoning.
 - B. Chronic poisoning with mercury
 - C. Chronic poisoning with benzol
 - D. Chronic poisoning with manganese
 - E. Chronic poisoning with carbon tetrachloride
- 32. The habitants of a rural settlement noticed the bad boiling of meat and beans in water, taken from a mine well. What, most probably, has predetermined such a phenomen?
 - A. Increased content of fluorine in water
 - B. Increased content of iron in water
 - C. Increased dense remainder
 - D. Increased hardness of water
 - E. Increased content of nitrates in water
- 33. For the improvement of quality of water in cleansing buildings it was stood by a natural way in horizontal standing, in which the water continuously moved at a speed of 0,1 m/s during 7 hours. What did water purified itself by the used method from?
 - A. Small particles
 - B. Larvae
 - C. Helminths eggs
 - D. Roughly dispersed particles
 - E. Microorganisms
- 34. At a man of 45 years old, with the height of 178 sm, body weight 80 kg 5 mmol/l of general cholesterol, 3 mmol/l of triglycerides were determined in the blood serum; his arterial blood pressure was 160/90 mm Hg. What food matters need to be limited in the ration of the patient?
 - A. Cholesterol
 - B. Lightly assimilated carbohydrates
 - C. Saturated fat acids
 - D. Polyunsaturated fat acids
 - E. Phospholipids
- 35. In the period of exacerbation of ulcerous illness of the stomach of a patient of gastroenterology department it was recommended to use the ground up foods. What type of nutrition does this measure belong to?
 - A. Rational
 - B. Preventive
 - C. Treatment-preventive
 - D. Dietary
 - E. Treatment

- 36. A part of the population, which lives in the remote settlement of a mountain district, complains about rapid fatigueability, increased sweating, pains in the heart. The increase of the thyroid is marked at these people. Consumption of what products would be advantageous for this contingent of population?
 - A. Diary
 - B. Cereals
 - C. Sea products
 - D. Meat products
 - E. Freshwater fishes
- 37. At the analysis of daily ration it was set that mealtimes comprise the following indexes: 10% of the daily energetic expenditures are covered during breakfast, 40% during dinner and 50% during supper. How is it necessary to correct the distributing of energy for mealtimes?
 - A. Increase of the energetic value of breakfast at the expense of dinner
 - B. Increase of the energetic value of breakfast at the expense of supper
 - C. Decrease of the energetic value of dinner with the increase of energetic value of supper
 - D. Decrease of the energetic value of supper at the expense of dinner
 - E. Increase of the energetic value of dinner at the expense of supper
- 38. In the air of one of the production apartments of an oncologic centre the content of antitumor medications exceeds their norm in more than 10 times. What class of labour terms is observed in these conditions?
 - A. Admissible
 - B. Harmful of the 1st degree
 - C. Harmful of the 2nd degree
 - D. Harmful of the 3rd degree
 - E. Harmful of the 4th degree
- 39. A woman of 60 years old with the normal body weight gets with the day's ration 50 g of albumen, 50 g of fat, 300 g of carbohydrates. In her ration the corn-bobs prevail, there is also enough quantity of vegetables, but the amount of milk, diary products is limited. What disease can develop with such a ration?
 - A. Osteoporosis
 - B. Atherosclerosis
 - C. Obesity
 - D. Hypertensive illness
 - E. Urine-stone illness
- 40. A man bought a product at a market under the guise of soluble coffee. During conducting hygienical examination of this product it was set, that content of coffee in this product made only 40%, other consisted of barley. What is the quality of such a product?
 - A. Decreased quality
 - B. Low quality
 - C. Conditionally suitable
 - D. Surrogate
 - E. False product
- 41. During chemical analysis of wheat bread the alkaloids of horns were determined. What disease can bring about consumption of such bread?
 - A. Aflatoxicosis
 - B. Aleukia
 - C. Leucopoenia
 - D. Ergotism
 - E. Fuzariotoxicosis
- 42. A man of 45 years old complaints about dryness in the mouth, weakness, diplopia in the eyes, impossibility to read, constipation, T–36,7oC. It is known from anamnesis, that 2 days ago he ate salads, domestic sausages, pate, borsch, stuffed cabbages with meat, mushrooms of the domestic canning, cake with cream. What food poisoning takes place in this case?

- A. Salmonellosis
- B. Food intoxication
- C. Poisoning with mushrooms
- D. Sausage-poisoning
- E. Staphylococcus toxicosis
- 43. In a hospital after breakfast, that consisted of milk, potato, butter, fish can foods and bread, 8 children were hospitalized with the signs of staphylococcus intoxication. Which of the above products, most probably, caused development of this disease?
 - A. Milk
 - B. Potato
 - C. Oil
 - D. Fish can foods
 - E. Bread
- 44. At consumption of a plenty of the strawberries purchased at a market, at a child of 3 years old appeared nausea, vomiting, diarrhoea, stuffiness, cyanosis, hives, and decline of blood pressure, the content of methaemoglobin in the blood 7%. What chemical matter, most probably, could cause poisoning of the child?
 - A. Saltpetre
 - B. Potassium fertilizers
 - C. Phosphor organic pesticides
 - D. Piretroid pesticides
 - E. Carbonate pesticides
- 45. The 10 years old boy's daily feed ration contains the following elements: vitamin B_1 –1.0mg, vitamin B_2 –1.2mg, vitamin B_6 –1.5mg, vitamin B_{12} –1.4mg, vitamin C–20mg. The boy complains about general weakness, rapid fatigueability, crabbiness, bleeding of the gums, petechiae on the legs. What type of hypovitaminosis has place at the boy?
 - A. C
 - $B. B_1$
 - $C. B_2$
 - D. B_6
 - E. B₁₂
- 46. During prophylactic medical examination of a worker of a glass-casting workshop the strengthening of a pulmonary image, extended roots of the lungs, compression in the form of separate knots were determined on the radiograph of thorax organs. During the inspection of terms labours it was set, that the content of dust with 80% of SiO₂ makes in the air 10 mg/m³. The initial symptoms of what disease have possibly arisen up at the worker?
 - A. Silicatosis
 - B. Silicosis
 - C. Amylosis
 - D. Anthracosis
 - E. Metalloconiosis
- 47. At a girl of 8 years old, the individual index of growth after the method of sigmal deviations differs from the middle one by +0.68, circumference of breasts -1.2, the body weight -1.6. What is the degree of physical development of this child?
 - A. Lower of middle
 - B. Low
 - C. Higher of middle
 - D. High
 - E. Middle
- 48. During complex estimation of the state of health of 0–6 and 7–14 years old children and of 15-17 years old teenagers living in the industrially developed settlement, it was set, that illnesses of the organs of breathing, digestion, skin and hypodermic cellulose, endocrine and nervous systems prevail among the

inspected age groups of children. Which of the above disorders takes II range in distributing diseases among the inspected age groups of children and teenagers (pursuant to conformities of the grade of distributing diseases in different age groups)?

- A. Diseases the breathing organs
- B. Diseases the digestion organs
- C. Diseases of the skin and hypodermic cellulose
- D. Diseases of the endocrine system
- E. Diseases of the nervous system
- 49. During study of feed of research female workers, it was set that their food ration contained 1.3 mg of thiamine, 0.8 mg of riboflavin, 16 mg of niacin, and 80 mg of ascorbic acid. Energetic value of the ration is 2000 kcal. Which of the above indexes requires correction?
 - A. Content of thiamine
 - B. Content of ascorbic acid
 - C. Content of niacin
 - D. Content of riboflavin
 - E. Energetic value
- 50. During the examination of children of different age groups with the purpose of iodine-deficiency diseases determination by the method of ioduria it was set, that the median of concentration of iodine in urine of the inspected children varied on the average from 60 to 90 mcg/l. What is the level of iodine receipt in the organism of children in this case?
 - A. Increased
 - B. Normal
 - C. Light deficit
 - D. Middle deficit
 - E. Heavy deficit
- 51. Parents purchased to a first-class boy a school desk with a folding lid, inclination of which makes 150, the height of seating at the desk corresponds to the length of the child's shin with additional height for low heels, the depth of seating makes 1/3 of the thigh lengths, the height of the desks corresponds to a distance on a vertical line from seating to the elbow of the freely dropped hand plus 5 cm, the distance of the back exceeds the frontoposterior size of the child thorax by the width of his palm. What parameter of the child's school desk needs correction?
 - A. Angle of lid inclination
 - B. Height of seat
 - C. Depth of seat
 - D. Height of the desks
 - E. Distance of back
- 52. A boy of 8 years old has the following indexes: body length 129 cm, body weight 29.5 kg ($\pm 0.3\sigma_R$), circumference of thorax 62.9 cm ($\pm 0.2\sigma_R$). Estimate physical development of this boy.
 - A. Sharply disharmonious
 - B. Disharmonious
 - C. Harmonious
 - D. Proportional
 - E. Disproportional
- 53. During hygienical estimation of production workshop on the work with metal at general school, it was set, that it was equipped with 14 working machine-tools located in 2 rows. Distance between the rows and from an internal wall to the machine-tools makes 1.0 m. Light onto working place falls from the left. What failing takes place in this case?
 - A. The number of machine-tools in the workshop
 - B. Allocation of machine-tools in 2 rows
 - C. Left-sided illumination of workplaces
 - D. Distance between rows
 - E. Distance from the internal wall to the machine-tools

- 54. Research on the accordance of a school desk to growth of pupils, who write with a right hand, revealed increase of height of the desks. What pathology can develop at students in this case?
 - A. Lordosis
 - B. Violation of blood circulation
 - C. Kyphosis
 - D. Right-sided scoliosis
 - E. Left-sided scoliosis
- 55. There are 60% of desks of group of B in a child's establishment. Of what length should children be to use this furniture?
 - A. 70-80 cm
 - B. 131-145 cm
 - C. 80–90 cm
 - D. 100-115 cm
 - E. 115-130 cm
- 56. In the class room of a transversal configuration for the pupils of the 2nd class school desks are located in 4 rows so that the distance between a board with length of 4 m and the 1st desk makes 1.5 m. Development of what pathology can be provoked?
 - A. Hypertonia
 - B. Scoliosis
 - C. Anaemia
 - D. Myopia
 - E. Neurasthenia
- 57. In a sharp experiment it was set, that LD50 of dimethylphtalat for the white rats males made 8275 mg/kg of the body weight, for females 8714 mg/kg, white mice 6262 mg/kg, murchaks 1194 mg/kg, rabbits 4200 mg/kg. What laboratory animals are the least sensible to dimetylphtalat?
 - A. White rats females
 - B. White rats males
 - C. White mice
 - D. Murchaks
 - E. Rabbits
- 58. A workwoman of an accumulator workshop of a car repair service enterprise levitates from a floor for the first half of work 10 accumulators, and for the second 7, the mass is 15 kg each. Define the class of labour conditions after the indexes of weight of a labour process.
 - A. Optimal
 - B. Admissible
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- 59. A builder executed a work outdoors on the height of 8-floor building in the conditions of cloudless sun, calm weather, increased temperature (30°C) and relative humidity 70 %. At the end of working day he felt head pain, muscular weakness, dizziness, violation of co-ordination of motions. Objectively: pulse and breathing frequency is speeded-up, temperature of body is 37,2°C. About what disease can one most probably think with such a clinical picture?
 - A. Height disease
 - B. Sun blow
 - C. Heat blow
 - D. Convulsive illness
 - E. Mountain illness
- 60. In the operating-room of a surgical department of a first-aid hospital the parameters of light microclimate are the following: the angle of the light falling 27°, the angle of the light opening 4°,

the coefficient of the natural illumination -2.0%, the light coefficient 1:6, the luminosity of the working field by shadeless lamps -6000 lc. Which of the following parameters needs correction?

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 - A. 0,5-1
 - B. 1-2
 - C. 1,5-3
 - D. 2-4
 - E. 3-6
- 62. In determination of separate parameters of microclimate in a lecture audience it was set, that the temperature of the air was 20°C, difference between the temperature of the air and temperature of walls 2,5°C, overfalls of temperature on a horizontal line 2,5°C, on a vertical line 2,0°C, relative humidity
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 - requirements?
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 - B. Difference between the temperature of the air and the temperature of walls
 - C. Overfalls of temperatures on a horizontal line
 - D. Overfalls of temperatures on a vertical line
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- 63. Work of a machinist at one metallurgical factory requires the concentrated supervision after a technological process during 70% of his working time. For one hour it is necessary to process 175 informative signals. In emergency situations it is necessary to make quick decisions in the terms of large deficit of time, next to danger and high responsibility. Which of the following indexes of labour process is not characteristic of the described type of labour?
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 - C. Physical dynamic load
 - D. Nervous-emotional load
 - E. Significance of errors
- 64. The thermal comfort of workers of surgical department depends mainly on humidity and temperature of the air in an apartment. The combination of which of these factors is responsible for violation of heat emission and overheat of the organism?
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 - B. Optimal temperature and high humidity
 - C. High temperature and high humidity
 - D. Low temperature and high humidity
 - E. Low temperature and optimal humidity
- 65. At the laboratory research of a sample of water, the presence of chlorine organic substances was determined, in particular, of chloroform. What would be expedient to use for the removal of these hazardous substances?
 - A. Electrodialyze of the water
 - B. Hyperfiltration
 - C. Aeration of the water
 - D. Respiration
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- 66. At the inspection of servicemen during implementation of an educational task at one of submarine boats, they complained on the head pain, tachycardia, and decline of work capacity. During laboratory examination acidosis and increased content of carbhaemoglobin was determined. What level of CO2 (%) in the air could result in these clinical signs?
 - A. 0,1-0,2
 - B. 1-2
 - C. 4-5
 - D. 8-10
- 67. A surgeon executes an operation duration of which makes 3 hours. The working pose is standing in the inclined position up to 30° that takes 60% of total time. Common time of concentration makes up to 90%. During the operation the surgeon must make decisions of the high responsibility concerning patient's life in the conditions of deficit of time. Which of the following indexes characterize hardness of the labour process?
 - A. Time of concentration
 - B. Working pose
 - C. Deficit of time
 - D. Rate of responsibility
 - E. Duration of the operation
- 68. The microclimate of an apartment is of the following parameters: temperature of the air -40° C; relative humidity -100%; rate of movement of the air -0.1 m/s; radiation temperature -80° C. Denote the most credible pathological state of the organism in such conditions:
 - A. General hyperthermia (heat-shock)
 - B. Decreased work capacity
 - C. Violation in the system of blood circulation
 - D. Violation of the respiratory system
 - E. Local hyperthermia
- 69. A surgeon of an orthopaedic department during operation, that lasts for 4 hours, leans over an operating field more than 300 times with the angle of slope more than 30°, executes work in the conditions of deficit of time and with the large emotional loading. What class is it possible to take the terms of his labour to?
 - A. Admissible
 - B. Harmful of the 1st degree
 - C. Harmful of the 2nd degree
 - D. Harmful of the 3rd degree
 - E. Optimal
- 70. During research of the content of carbon dioxide in hospital chambers for adults it was set, that in a chamber № 1 its concentration was 0,20 % № 2–0,15 % № 3–0,09 % № 4–0,3 % № 5–0,25 %. At what chamber the content of carbon dioxide is at the admissible level?
 - A. № 1
 - B. № 2
 - C. № 3
 - D. № 4
 - E. № 5
- 71. For consumption is used the water with smell of 0 marks, colour— 20°, transparency 32 cm, turbidity 0,7 mg/dm³. Give hygienicl estimation to organoleptic properties of the water.
 - A. Increased turbidity
 - B. Decreased transparency
 - C. The level of all indexes corresponds to hygienic norms
 - D. Increased colour
 - E. Intensity of a strange smell exceeds admissible level

- 72. The habitants of a mountain settlement use for their economic and drinkable necessities an underground source which appeared at the cut of aquiferous horizon as a result of falling of relief on the slope of a mountain. How is this source of water-supply named?
 - A. Artesian
 - B. Brook
 - C. Downward
 - D. Upward
 - E. River
- 73. The water with the following indexes is used: the general microbial number 35, the number of intestinal helminth–3, the number of the pathogenic intestinal protozoa–0. Give hygienic estimation to the indexes of epidemic safety of water.
 - A. Level of indexes corresponds to hygienic norms
 - B. Increased the common microbe number
 - C. Increased index BGCP
 - D. Increased the number of intestinal helminth
 - E. Increased content of the pathogenic intestinal Protozoa
- 74. In the air of one of production apartments of a pharmaceutical enterprise the content of antitumor medications exceeds their admissible level more than 10 times. What class of labour is considered in such conditions?
 - A. Possible
 - B. Harmful of the 1st degree
 - C. Harmful of the 2nd degree
 - D. Harmful of the 3nd degree
 - E. Harmful of the 4th degree
- 75. The results of examination of water from a mine well showed that its transparency makes 35 sm, colour -40° , taste -2 points, smell -3 points, general microbial number -150. Which of the given indexes does not correspond to the hygienical requirements?
 - A. Transparency
 - B. Colour
 - C. Taste
 - D. Smell
 - E. general microbial number
- 76. At research of a drinking-water sample the increase of content of only nitrates connections is determined. What character of contamination of water does it testify about?
 - A. With oil products
 - B. With sewage from cattle farms
 - C. With products of mineral origin
 - D. With the products of sewage origin
 - E. With products of vegetable origin
- 77. In the explored sample of water content of iron was at the level of 0,2 mg/dm³, fluorine 1,5 mg/dm³, general mineralization– 950 mg/dm³, chlorides 500 mg/dm³, general hardness– 6,0 mg·ecv/dm³. What method of conditioning is it necessary to use for its improvement?
 - A. Removing of iron
 - B. Removing of fluorine
 - C. Disinfection
 - D. Desalination
 - E. Making water softer
- 78. The energetic value of a surgeon day's ration makes 3000 kcal at 3-times per day diet. Thus on breakfast he receives 15%, on dinner-45%, on supper-40% from the energetic value of the ration. How must a diet be changed, so it corresponds to the hygienical requirements?
 - A. Decrease of caloric content of supper
 - B. Increase of the caloric content of dinner

- C. Decrease of the caloric content of dinner
- D. Distribution of the caloric content equally between mealtimes
- E. Decrease the caloric content of breakfast
- 79. A woman of 60 years old with a normal body mass gets with day's ration 50 g of albumen, 50 g of fat, and 300 g of carbohydrates? What energetic value of ration is due to carbohydrates?
 - A. 1300 kcal
 - B. 1000 kcal
 - C. 450 kcal
 - D. 1200 kcal
 - E. 500 kcal
- 80. At the analysis of daily ration it was set that mealtimes comprise the following indexes: 10% of the daily energetic expenditures are covered during breakfast, 40% during dinner and 50% during supper. How is it necessary to correct the distributing of energy for mealtimes?
 - A. Increase of the energetic value of breakfast at the expense of dinner
 - B. Increase of the energetic value of breakfast at the expense of supper
 - C. Decrease of the energetic value of dinner with the increase of energetic value of supper
 - D. Decrease of the energetic value of supper at the expense of dinner
 - E. Increase of the energetic value of dinner at the expense of supper
- 81. In the period of exacerbation of ulcerous illness of the stomach of a patient of gastroenterology department it was recommended to use the ground up foods. What type of feed does this measure belong to?
 - A. Rational
 - B. Preventive
 - C. Treatment-preventive
 - D. Dietary
 - E. Treatment
- 82. A part of the population, which lives in the remote settlement of a mountain district, complains about rapid fatigueability, increased sweating, pains in the heart. The increase of the thyroid is marked at these people. Consumption of what products would be advantageous for this contingent of population?
 - A. Diary
 - B. Cereals
 - C. Sea products
 - D. Meat products
 - E. Freshwater fishes
- 83. In the air of one of the production apartments of an oncologic centre the content of antitumor medications exceeds their norm in more than 10 times. What class of labour terms is observed in these conditions?
 - A. Admissible
 - B. Harmful of the 1st degree
 - C. Harmful of the 2nd degree
 - D. Harmful of the 3rd degree
 - E. Harmful of the 4th degree
- 84. A man bought a product at a market under the guise of soluble coffee. During conducting hygienical examination of this product it was set, that content of coffee in this product made only 40%, other consisted of barley. What is the quality of such a product?
 - A. Decreased quality
 - B. Low quality
 - C. Conditionally suitable
 - D. Surrogate
 - E. False product
- 85. During chemical analysis of wheat bread the alkaloids of horns were determined. What disease can bring about consumption of such bread?

- A. Aflatoxicosis
- B. Aleukia
- C. Leucopoenia
- D. Ergotism
- E. Fuzariotoxicosis
- 86. A woman of 60 years old with the normal body weight gets with the day's ration 50 g of albumen, 50 g of fat, 300 g of carbohydrates. In her ration the corn-bobs prevail, there is also enough quantity of vegetables, but the amount of milk, diary products is limited. What disease can develop with such a ration?
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 - B. Atherosclerosis
 - C. Obesity
 - D. Hypertensive illness
 - E. Urine-stone illness
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 - A. Salmonellosis
 - B. Food intoxication
 - C. Poisoning with mushrooms
 - D. Sausage-poisoning
 - E. Staphylococcus toxicosis
- 88. In a hospital after breakfast, that consisted of milk, potato, butter, fish can foods and bread, 8 children were hospitalized with the signs of staphylococcus intoxication. Which of the above products, most probably, caused development of this disease?
 - A. Milk
 - B. Potato
 - C. Oil
 - D. Fish can foods
 - E. Bread
- 89. During prophylactic medical examination of a worker of a glass-casting workshop the strengthening of a pulmonary image, extended roots of the lungs, compression in the form of separate knots were determined on the radiograph of thorax organs. During the inspection of terms labours it was set, that the content of dust with 80% of SiO₂ makes in the air 10 mg/m³. The initial symptoms of what disease have possibly arisen up at the worker?
 - A. Silicatosis
 - B. Silicosis
 - C. Amylosis
 - D. Anthracosis
 - E. Metalloconiosis
- 90. At consumption of a plenty of the strawberries purchased at a market, at a child of 3 years old appeared nausea, vomiting, diarrhoea, stuffiness, cyanosis, hives, and decline of blood pressure, the content of methaemoglobin in the blood 7%. What chemical matter, most probably, could cause poisoning of the child?
 - A. Saltpetre
 - B. Potassium fertilizers
 - C. Phosphor organic pesticides
 - D. Piretroid pesticides
 - E. Carbonate pesticides
- 91. During complex estimation of the state of health of 0–6 and 7–14 years old children and of 15-17 years old teenagers living in the industrially developed settlement, it was set, that illnesses of the organs of

breathing, digestion, skin and hypodermic cellulose, endocrine and nervous systems prevail among the inspected age groups of children. Which of the above disorders takes II range in distributing diseases among the inspected age groups of children and teenagers (pursuant to conformities of the grade of distributing diseases in different age groups)?

- A. Diseases the breathing organs
- B. Diseases the digestion organs
- C. Diseases of the skin and hypodermic cellulose
- D. Diseases of the endocrine system
- E. Diseases of the nervous system
- 92. During study of feed of research female workers, it was set that their food ration contained 1.3 mg of thiamine, 0.8 mg of riboflavin, 16 mg of niacin, and 80 mg of ascorbic acid. Energetic value of the ration is 2000 kcal. Which of the above indexes requires correction?
 - A. Content of thiamine
 - B. Content of ascorbic acid
 - C. Content of niacin
 - D. Content of riboflavin
 - E. Energetic value
- 93. During the examination of children of different age groups with the purpose of iodine-deficiency diseases determination by the method of ioduria it was set, that the median of concentration of iodine in urine of the inspected children varied on the average from 60 to 90 mcg/l. What is the level of iodine receipt in the organism of children in this case?
 - A. Increased
 - B. Normal
 - C. Light deficit
 - D. Middle deficit
 - E. Heavy deficit
- 94. The 10 years old boy's daily feed ration contains the following elements: vitamin B₁–1.0mg, vitamin B₂–1.2mg, vitamin B₆–1.5mg, vitamin B₁₂–1.4mg, vitamin C–20mg. The boy complains about general weakness, rapid fatigueability, crabbiness, bleeding of the gums, petechiae on the legs. What type of hypovitaminosis has place at the boy?
 - A. C
 - B. B_1
 - $C. B_2$
 - D. B₆
 - E. B_{12}
- 95. At a girl of 8 years old, the individual index of growth after the method of sigmal deviations differs from the middle one by +0.68, circumference of breasts -1.2, the body weight -1.6. What is the degree of physical development of this child?
 - A. Lower of middle
 - B. Low
 - C. Higher of middle
 - D. High
 - E. Middle
- 96. A boy of 8 years old has the following indexes: body length 129 cm, body weight 29.5 kg ($\pm 0.3\sigma_R$), circumference of thorax 62.9 cm ($\pm 0.2\sigma_R$). Estimate physical development of this boy.
 - A. Sharply disharmonious
 - B. Disharmonious
 - C. Harmonious
 - D. Proportional
 - E. Disproportional
- 97. During hygienical estimation of production workshop on the work with metal at general school, it was set, that it was equipped with 14 working machine-tools located in 2 rows. Distance between the rows

and from an internal wall to the machine-tools makes 1.0 m. Light onto working place falls from the left. What failing takes place in this case?

- A. The number of machine-tools in the workshop
- B. Allocation of machine-tools in 2 rows
- C. Left-sided illumination of workplaces
- D. Distance between rows
- E. Distance from the internal wall to the machine-tools
- 98. Research on the accordance of a school desk to growth of pupils, who write with a right hand, revealed increase of height of the desks. What pathology can develop at students in this case?
 - A. Lordosis
 - B. Violation of blood circulation
 - C. Kyphosis
 - D. Right-sided scoliosis
 - E. Left-sided scoliosis
- 99. There are 60% of tables of group of B in a child's establishment. Of what length should children be to use this furniture?
 - A. By 70 cm
 - B. By 80 cm
 - C. 80-90 cm
 - D. 100-115 cm
 - E. 115-130 cm
- 100. Parents purchased to a first-class boy a school desk with a folding lid, inclination of which makes 150, the height of seating at the desk corresponds to the length of the child's shin with additional height for low heels, the depth of seating makes 1/3 of the thigh lengths, the height of the desks corresponds to a distance on a vertical line from seating to the elbow of the freely dropped hand plus 5 cm, the distance of the back exceeds the frontoposterior size of the child thorax by the width of his palm. What parameter of the child's school desk needs correction?
 - A. Angle of lid inclination
 - B. Height of seat
 - C. Depth of seat
 - D. Height of the desks
 - E. Distance of back
- 101. A boy of 13 years old suffers from bronchoectatic illness in the stage of subcompensation, every year he has pneumonia. What group of health can the boy be taken to?
 - A. The 5th group of health
 - B. The 4th group of health
 - C. The 3rd group of health
 - D. The 2nd group of health
 - E. The 1st group of health
- 102. For estimation of the degree of school maturity of 6-years-old children the diagnostic test after Kern-Irasek was applied, pursuant to which the total assessment of the accomplishment of task made 3–4 points. What is the degree of school readiness at the inspected children?
 - A. High;
 - B. Middle;
 - C. Low;
 - D. They are not ready after the level of physical development;
 - E. They are ready after the indexes of physical development.
- 103. In the class room of a transversal configuration for the pupils of the 2nd class school desks are located in 4 rows so that the distance between a board with length of 4 m and the 1st desk makes 1.5 m. Development of what pathology can be provoked?
 - A. Hypertonia
 - B. Scoliosis

- C. Anaemia
- D. Myopia
- E. Neurasthenia
- 104. In a sharp experiment it was set, that LD50 of dimethylphtalat for the white rats males made 8275 mg/kg of the body weight, for females 8714 mg/kg, white mice 6262 mg/kg, murchaks 1194 mg/kg, rabbits 4200 mg/kg. What laboratory animals are the least sensible to dimetylphtalat?
 - A. White rats females
 - B. White rats males
 - C. White mice
 - D. Murchaks
 - E. Rabbits
- 105. Research on the accordance of a school desk to growth of pupils, who write with a right hand, revealed increase of height of the desks. What pathology can develop at students in this case?
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 - A. White rats females
 - B. White rats males
 - C. White mice
 - D. Murchaks
 - E. Rabbits
- 109. A woman of 60 years old with a normal body mass gets with day's ration 50 g of albumen, 50 g of fat, and 300 g of carbohydrates? What energetic value of ration is due to carbohydrates?
 - A. 1300 kcal
 - B. 1000 kcal
 - C. 450 kcal
 - D. 1200 kcal
 - E. 500 kcal
- 110. At the analysis of food ration at an enterprise, where women work, it was set, that the food ration contains the following amounts of mineral matters (mg): Ca–900, P 1200, Mg–350, Fe–17, Zn–15. Which of these microelements is in deficit in the food ration?

- A. Ca
- B. Fe
- C. Zn
- D. Mg
- E. P
- 111. The energetic value of a surgeon day's ration makes 3000 kcal at 3-times per day diet. Thus on breakfast he receives 15%, on dinner—45%, on supper-40% from the energetic value of the ration. How must a diet be changed, so it corresponds to the hygienical requirements?
 - A. Decrease of caloric content of supper
 - B. Increase of the caloric content of dinner
 - C. Decrease of the caloric content of dinner
 - D. Distribution of the caloric content equally between mealtimes
 - E. Decrease the caloric content of breakfast
- 112. A worker of a factory on paints manufacturing complaints on unpleasant taste in the mouth, spasmodic stomach-aches, constipation, which are not coped with laxatives. Objectively: the skin of face is of pale-greyish colour, there is a red-grey strip on the edge of the gums near foreteeth. At laboratory research the following changes were determined: in the blood anaemia, reticulocitosis, basophile graininess of red corpuscles, increased content of bilirubine; in urine content of porfirins is increased. What disease is a worker suffering from?
 - A. Chronic lead poisoning.
 - B. Chronic poisoning with mercury
 - C. Chronic poisoning with benzol
 - D. Chronic poisoning with manganese
 - E. Chronic poisoning with carbon tetrachloride
- 113. The habitants of a rural settlement noticed the bad boiling of meat and bobs in water, taken from a mine well. What, most probably, has predetermined such a phenomenon?
 - A. Increased content of fluorine in water
 - B. Increased content of iron in water
 - C. Increased dense remainder
 - D. Increased hardness of water
 - E. Increased content of nitrates in water
- 114. For the improvement of quality of water in cleansing buildings it was stood by a natural way in horizontal standing, in which the water continuously moved at a speed of 0,1 m/s during 7 hours. What did water purified itself by the used method from?
 - A. Small particles
 - B. Larvae
 - C. Helminths eggs
 - D. Roughly dispersed particles
 - E. Microorganisms
- 115. At a man of 45 years old, with the height of 178 sm, body weight 80 kg 5 mmol/l of general cholesterol, 3 mmol/l of triglycerides were determined in the blood serum; his arterial blood pressure was 160/90 mm Hg. What food matters need to be limited in the ration of the patient?
 - A. Cholesterol
 - B. Lightly assimilated carbohydrates
 - C. Saturated fat acids
 - D. Polyunsaturated fat acids
 - E. Phospholipids
- 116. In the period of exacerbation of ulcerous illness of the stomach of a patient of gastroenterology department it was recommended to use the ground up foods. What type of feed does this measure belong to?
 - A. Rational
 - B. Preventive

- C. Treatment-preventive
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- E. Treatment
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 - A. Diary
 - B. Cereals
 - C. Sea products
 - D. Meat products
 - E. Freshwater fishes
- 118. At the analysis of daily ration it was set that mealtimes comprise the following indexes: 10% of the daily energetic expenditures are covered during breakfast, 40% during dinner and 50% during supper. How is it necessary to correct the distributing of energy for mealtimes?
 - A. Increase of the energetic value of breakfast at the expense of dinner
 - B. Increase of the energetic value of breakfast at the expense of supper
 - C. Decrease of the energetic value of dinner with the increase of energetic value of supper
 - D. Decrease of the energetic value of supper at the expense of dinner
 - E. Increase of the energetic value of dinner at the expense of supper
- 119. In the air of one of the production apartments of an oncologic centre the content of antitumor medications exceeds their norm in more than 10 times. What class of labour terms is observed in these conditions?
 - A. Admissible
 - B. Harmful of the 1st degree
 - C. Harmful of the 2nd degree
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- 120. A woman of 60 years old with the normal body weight gets with the day's ration 50 g of albumen, 50 g of fat, 300 g of carbohydrates. In her ration the corn-bobs prevail, there is also enough quantity of vegetables, but the amount of milk, diary products is limited. What disease can develop with such a ration?
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- 121. A man bought a product at a market under the guise of soluble coffee. During conducting hygienical examination of this product it was set, that content of coffee in this product made only 40%, other consisted of barley. What is the quality of such a product?
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 - A. Aflatoxicosis
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 - A. Salmonellosis
 - B. Food intoxication
 - C. Poisoning with mushrooms
 - D. Sausage-poisoning
 - E. Staphylococcus toxicosis
- 124. In a hospital after breakfast, that consisted of milk, potato, butter, fish can foods and bread, 8 children were hospitalized with the signs of staphylococcus intoxication. Which of the above products, most probably, caused development of this disease?
 - A. Milk
 - B. Potato
 - C. Oil
 - D. Fish can foods
 - E. Bread
- 125. At consumption of a plenty of the strawberries purchased at a market, at a child of 3 years old appeared nausea, vomiting, diarrhoea, stuffiness, cyanosis, hives, and decline of blood pressure, the content of methaemoglobin in the blood 7%. What chemical matter, most probably, could cause poisoning of the child?
 - A. Saltpetre
 - B. Potassium fertilizers
 - C. Phosphor organic pesticides
 - D. Piretroid pesticides
 - E. Carbonate pesticides
- 126. The 10 years old boy's daily feed ration contains the following elements: vitamin B_1 –1.0mg, vitamin B_2 –1.2mg, vitamin B_6 –1.5mg, vitamin B_{12} –1.4mg, vitamin C–20mg. The boy complains about general weakness, rapid fatigueability, crabbiness, bleeding of the gums, petechiae on the legs. What type of hypovitaminosis has place at the boy?
 - A. C
 - $B. B_1$
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 - A. Lower of middle
 - B. Low
 - C. Higher of middle
 - D. High

E. Middle

- During complex estimation of the state of health of 0–6 and 7–14 years old children and of 15-17 years old teenagers living in the industrially developed settlement, it was set, that illnesses of the organs of breathing, digestion, skin and hypodermic cellulose, endocrine and nervous systems prevail among the inspected age groups of children. Which of the above disorders takes II range in distributing diseases among the inspected age groups of children and teenagers (pursuant to conformities of the grade of distributing diseases in different age groups)?
 - A. Diseases the breathing organs
 - B. Diseases the digestion organs
 - C. Diseases of the skin and hypodermic cellulose
 - D. Diseases of the endocrine system
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- 130. During study of feed of research female workers, it was set that their food ration contained 1.3 mg of thiamine, 0.8 mg of riboflavin, 16 mg of niacin, and 80 mg of ascorbic acid. Energetic value of the ration is 2000 kcal. Which of the above indexes requires correction?
 - A. Content of thiamine
 - B. Content of ascorbic acid
 - C. Content of niacin
 - D. Content of riboflavin
 - E. Energetic value
- During the examination of children of different age groups with the purpose of iodine-deficiency diseases determination by the method of ioduria it was set, that the median of concentration of iodine in urine of the inspected children varied on the average from 60 to 90 mcg/l. What is the level of iodine receipt in the organism of children in this case?
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- Parents purchased to a first-class boy a school desk with a folding lid, inclination of which makes 150, the height of seating at the desk corresponds to the length of the child's shin with additional height for low heels, the depth of seating makes 1/3 of the thigh lengths, the height of the desks corresponds to a distance on a vertical line from seating to the elbow of the freely dropped hand plus 5 cm, the distance of the back exceeds the frontoposterior size of the child thorax by the width of his palm. What parameter of the child's school desk needs correction?
 - A. Angle of lid inclination
 - B. Height of seat
 - C. Depth of seat
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- 133. A boy of 8 years old has the following indexes: body length 129 cm, body weight 29.5 kg $(+0.3\sigma_R)$, circumference of thorax 62.9 cm $(+0.2\sigma_R)$. Estimate physical development of this boy.
 - A. Sharply disharmonious
 - B. Disharmonious
 - C. Harmonious
 - D. Proportional
 - E. Disproportional
- 134. A surgeon executes an operation duration of which makes 3 hours. The working pose is standing in the inclined position up to 30° that takes 60% of total time. Common time of concentration makes up to 90%. During the operation the surgeon must make decisions of the high responsibility concerning patient's life in the conditions of deficit of time. Which of the following indexes characterize hardness of the labour process?

- A. Time of concentration
- B. Working pose
- C. Deficit of time
- D. Rate of responsibility
- E. Duration of the operation
- 135. A boy of 13 years old suffers from bronchoectatic illness in the stage of subcompensation, every year he has pneumonia. What group of health can the boy be taken to?
 - A. The 5th group of health
 - B. The 4th group of health
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 - A. High;
 - B. Middle;
 - C. Low;
 - D. They are not ready after the level of physical development;
 - E. They are ready after the indexes of physical development.
- 137. For consumption is used the water with smell of 0 marks, colour— 20° , transparency—32 cm, turbidity—0.7 mg/dm³. Give hygienical estimation to organoleptic properties of the water.
 - A. Increased turbidness
 - B. Decreased transparency
 - C. The level of all indexes corresponds to hygienical norms
 - D. Increased colour
 - E. Intensity of a strange smell exceeds admissible level