Nº	1) krok 2023
Topic	Industrial production of tablets
Task	What is the name of the solid dosage form, which is gelatin capsules that are filled with microcapsules with a fatty coating?
Correct answer	Spansula
В	Pearl
С	Tablet type "OROS"
D	Microcapsule
Е	E.Tubatina
N⁰	2) krok 2023
Topic	Industrial production of injectable and infusion dosage forms
Task	Specify the main feature that separates the water for injection from the purified water.
Correct answer	Pyrogenicity
В	pH value
С	Absence of heavy metals
D	Method of obtaining
Е	No mechanical inclusions
N⁰	3) krok 2023
Topic	Industrial production of tablets
Task	What are oblong tablets intended for oral use called?
Correct answer	Caplets
В	Drazhe
С	Tubatiny
D	Granules
Е	Capsules
N⁰	4) krok 2023
Topic	Industrial production of capsules

Task	Pharmaceutical production produces gelatin capsules. What is included in the gelatin mass to ensure the
	antimicrobial resistance of the shells?
Correct answer	Plasticizers
В	Dyes
С	Film-forming agents
D	Preservatives
E	Stabilizers
N⁰	5) krok 2023
Topic	Industrial production of extracts. Tinctures.
Task	What methods of cleaning the hood are used in the production of tinctures?
Correct answer	Settling at temperature 8-10°C, filtration
В	Liquid-to-liquid extraction treatment methods
С	Denaturation, filtration, sorption
D	Dialysis, sedimentation
E	Solvent Change, Sedimentation, Filtration
N⁰	6) krok 2023
Topic	Industrial production of extracts. Tinctures.
Task	How is menthol obtained from peppermint essential oil?
Correct answer	Freezing
В	Volatile solvent extraction
С	Anflerajou
D	Enzymatic hydrolysis
Е	Extraction with non-volatile solvents
Nº	7) krok 2023
Topic	Industrial production of tablets
Task	What are the names of uncoated tablets, the bulk of which are acids and carbonates?
Correct answer	Effervescent

В	Pressed
С	Soluble
D	Caplets
Е	Acidic
N⁰	8) krok 2023
Topic	Industrial production of extracts. Tinctures.
Task	What is the evaluation of thick extracts?
Correct answer	Moisture content
В	Density
С	Alcohol content
D	Filler content
Е	Color
N⁰	9) krok 2023
Topic	Industrial production forms under pressure
Task	What are the dissipating or evacuation gases called, with the help of which the aerosol product is dispensed?
Correct answer	Propellenti
В	Spirty
С	Activators
D	Oxygen
Е	Glycerin
N⁰	10) krok 2023
Topic	Industrial production of capsules
Task	What excipient in the shell of the gelatin capsule acts as a plasticizer?
Correct answer	Glycerin
В	Methylcellulose
С	Krokhmal

D	Isopropyl alcohol
Е	Gelatin
N⁰	11) krok 2023
Topic	Industrial production of tablets
Task	Which quality parameter is not determined for film-coated tablets?
Correct answer	Abrasion Strength
В	Average mass and deviations from it
С	Solubility
D	Homogeneity of dosage
Е	Ability to disintegrate
N⁰	12) krok 2023
Topic	Industrial production of ophthalmic, ear, nasal dosage forms
Task	The pharmaceutical company manufactures sterile aqueous solutions for wetting and washing the eyes, as well as for impregnating materials that are applied to the eye. Specify the type of dosage form of such solutions.
Correct answer	Lotions
В	Drops
С	Ointments
D	Sprays
Е	Inserts
N⁰	13) krok 2023
Topic	Industrial production of ophthalmic, ear, nasal dosage forms
Task	How are thermolabile eye drops sterilized?
Correct answer	Filtering
В	Hot air
С	Pressure steam sterilization
D	Gas sterilization

Е	Chemical sterilization
№	14) krok 2023
Topic	Industrial production of injectable and infusion dosage forms
Task	In the ampoule shop, solutions for injections are made. What group of solutions does ascorbic acid solution for
	injection belong to?
Correct answer	Solutions that oxidize easily
В	Solutions of substances requiring spepial purification
С	Solutions of salts formed by weak bases and strong acids
D	Solutions of salts formed by strong bases and weak acids
E	Solutions of substances that are not subject to heat sterilization
N⁰	15) krok 2023
Topic	Industrial production of ophthalmic, ear, nasal dosage forms
Task	Which of the following substances is thermolabile?
Correct answer	Kolargol
В	Sodium hydroxide
С	Sodium chloride
D	Calcium chloride
E	Calcium gluconate
N⁰	16) krok 2023
Topic	Industrial production of soft medicinal forms
Task	The pharmaceutical company manufactures finished medicines. For which dosage form does the SPhU regulate
	the "complete deformation time" indicator?
Correct answer	Suppositories
В	Geli
С	Creamy
D	Suspensions
E	Ointments

N⁰	17) krok 2023
Topic	Industrial production organopreparations
Task	The pharmaceutical company produces hormonal drugs. 3 What raw materials is insulin obtained?
Correct answer	Pancreas of cattle and pigs
В	Posterior pituitary gland
С	Adrenal cortex
D	Thyroid gland
E	Anterior pituitary gland
N⁰	18) krok 2023
Topic	Industrial production of capsules
Task	Which of the following methods is used in the production of soft capsules with a suture?
Correct answer	Pressing Method
В	Drip method
С	Pouring Method
D	Indentation method
E	Immersion Method
N⁰	19) krok 2023
Topic	Industrial production of soft medicinal forms
Task	The pharmaceutical company produces soft medicines. What quality index is determined only for
	heterogeneous soft medicines?
Correct answer	Particle size
В	pH
С	Microbiological purity
D	Quantification
E	Identification
№	1) krok 2021
Topic	Industrial production of soft dosage forms

	A pharmaceutical factory produces suppositories with hydrophilic bases. What parameter is measured during
Task	standardization of such suppositories?
Correct answer	Dissolution time
В	Mechanical strength
С	Boiling point
D	Dry residue
Е	Resuspension
№	2) krok 2021
Topic	Industrial production of soft dosage forms
Task	A pharmacist prepares a vaseline-based ointment. The vehicle was heated to 40°C. What substance was introduced into the heated vehicle?
Correct answer	Camphor
В	Benzoic acid
С	Vinilin (polyvinyl butyl ether)
D	Anesthesin
Е	Streptocide
N⁰	3) krok 2021
Topic	Industrial production of injectable and infusion dosage forms
	A pharmacy prepares sodium chloride solutions for injections or infusions. What are the additional
Task	requirements to the quality of sodium chloride for infusion solutions?
Correct answer	Chemically pure, depyrogenated
В	Type «for injections»
С	Anhydrous, analytical grade pure
D	No manganese salt admixtures
Е	Analytical grade pure
Nº	4) krok 2021
Topic	Industrial production of powders

Task	Powders are a solid dosage form for internal or external use. What stage is not a part of powder production?
Correct answer	Granulation
В	Packaging
С	Mixing
D	Comminution
E	Sifting
N⁰	5) krok 2021
Topic	Industrial production of injectable and infusion dosage forms
Task	The ampoule workshop of a factory produces a 5% oil-based solution of tocopherol acetate for injections. What filling technique should be used to fill the ampoules with this solution?
Correct answer	Syringe
В	Syringe and vacuum
С	Vapor condensation
D	Vacuum
Е	Syringe and vapor condensation
N⁰	6) krok 2021
Topic	Industrial production of emulsions, suspensions
Task	A pharmacist prepares an oil emulsion with menthol. How should menthol be introduced in this case?
Correct answer	Menthol should be dissolved in oil before preparing the primary emulsion
	Menthol should be comminuted with the emulsifier and then with a part of water, prepared for the dilution of
В	the primary emulsion
С	Menthol should be dissolved in the purified water
	Menthol should be comminuted in a mortar with several drops of ethanol and then mixed with the primary
D	emulsion
Е	
N⁰	7) krok 2021

Topic	Industrial production of extracts. Tinctures.
	In production of extraction drugs with maximum purity level, the extracts are purified using the method of
Task	liquid-liquid extraction, which is the process of:
Correct answer	Extraction from one liquid using another
В	Ultrasound exposure
С	Heating the extract
D	Electrolyte action
Е	Dialysis
Nº	8) krok 2021
Topic	Extraction from one liquid using another
Task	A pharmacy makes aqueous extracts. What extractant is used in preparation of infusions and decoctions?
Correct answer	Purified water
В	Glycerin
С	Peach oil
D	Mint oil
E	Ethyl alcohol
N⁰	9) krok 2021
Topic	Industrial production of extracts. Tinctures.
	A pharmaceutical company produces a belladonna tincture. In the process of standardization, the excessive
Task	content of active substances was detected. How can this situation be remedied?
Correct answer	Dilute the tincture with extractant to normal concentration
В	This kind of deviation is not important
С	Filter the tincture through adsorbents
D	The tincture is a non-recoverable reject material
Е	Precipitate excessive active substances
N⁰	10) krok 2021

Topic	Industrial production of capsules
Task	Soft gelatin capsules with an elongated neck are called:
Correct answer	Tubatines
В	Rectal capsules
С	Medules
D	Spansules
Е	Microcapsules
N⁰	11) krok 2021
Topic	Industrial production of extracts. Tinctures.
Task	A pharmacist has prepared an oak bark decoction. What is the ratio of the herbal raw material to extractant:
Correct answer	0,048611111
В	0,0625
С	0,045138889
D	0,05555556
Е	0,31944444
N⁰	12) krok 2021
Topic	Industrial production of tablets
Task	Among the various types of tablet coating there are enterosoluble coatings. Where in the body are they dissolved
Correct answer	Intestine
В	Oral cavity
С	Rectum
D	Stomach
Е	Esophagus
Nº	13) krok 2021
Topic	Industrial production of injectable and infusion dosage forms

	When making ampoules, certain admixtures are introduced into the glass to change its properties. Why is
Task	boron oxide added into the glass?
Correct answer	To improve its chemical resistance
В	To change its color
С	To increase its thermal resistance
D	To increase its mechanical strength
Е	To lower its melting temperature
N⁰	14) krok 2021
Topic	Industrial production of ophthalmic, ear, nasal dosage forms
Teels	A pharmacist has prepared a vehicle for eye ointments. What method of vehicle sterilization should be chosen in this case?
Task Compost on swor	
Correct answer	Dry heat
B	Ultraviolet irradiation
C	Flowing steam
D	Membrane filtration
E	Pasteurization
N⁰	15) krok 2021
Topic	Industrial production of soft dosage forms
	A pharmacist has prepared suppositories with novocaine (procaine) hydrochloride using a rolling technique.
	The novocaine hydrochloride content is less than 5%. How is this substance introduced into the base in this
Task	case?
Correct answer	Dissolution in the minimal amount of water
В	Dissolution in the minimal amount of castor oil
С	Dissolution in ethyl alcohol
D	Dissolution in the melted base
Е	Dissolution in the minimal amount of alcohol-water-glycerin mixture
Nº	16) krok 2021

Topic	Industrial production of tablets
Task	What lubricants are used in tablet manufacturing?
Correct answer	Calcium stearate, stearic acid
В	Water, ethanol
С	Solutions of high-molecular compounds
D	Tween 80, Aerosily
Е	Starch paste
N⁰	17) krok 2021
Topic	Industrial production of ophthalmic, ear, nasal dosage forms
Task	A pharmacy has received a formulation for eye drops with protargol (silver proteinate). What substance will be used to make the eye drops isotonic?
Correct answer	No isotonation is needed
В	Sodium nitrate
С	Boric acid
D	Sodium sulfate
Е	Sodium chloride
N⁰	18) krok 2021
Topic	Industrial production of injectable and infusion dosage forms
Task	A pharmacist has prepared an ascorbic acid solution for injections. What stabilizer was used in this case
Correct answer	Sodium sulfite
В	Boric acid
С	0.1 M solution of sodium hydroxide
D	0.1 M solution of hydrochloric acid
Е	Weibel stabilizer
N₂	19) krok 2021
Topic	Industrial production of pharmaceutical solutions

	A pharmaceutical factory prepares syrups for taste-masking of medicines. What substance must be removed
Task	from such syrups to prevent jellification of the end product?
Correct answer	Pectin
В	Starch
С	Glucose
D	Fructose
Е	Sucrose
№	20) krok 2021
Topic	Industrial production of extracts. Tinctures.
Task	The phytochemical department of a pharmaceutical manufacture produces maximally purified extracts. In the process, specific methods are used for the extract purification. Which description corresponds with the dialysis method?
Correct answer	The characteristic of biopolymer molecules that does not allow them to pass through semi-permeable membranes
В	The process of electrolyte action
С	The process of heating the extract
D	The process of gas absorption
Е	The process of extraction from one liquid using another liquid
№	21) krok 2021
Topic	A pharmaceutical factory produces
Task	various types of tablets. What is the
Correct answer	purpose of Solublettae tablets?
В	Preparation of solutions for various pharmaceutical purposes
С	Rectal administration
D	Implantation
Е	Sublingual administration
N⁰	1) krok 2020

Topic	industrial production of injection and infusion medicinal forms
Task	Specify the isotonic concentration of a sodium chloride solution:
Correct answer	0.9%
В	5.0%
С	10.0%
D	1.8%
E	1.0%
№	2) krok 2020
Topic	industrial production of phyto- and organopreparations and biogenic stimulants
	A pharmaceutical factory produces medicinal syrups. What substances ensure microbial stability of this dosage
Task	form?
Correct answer	Preservatives
В	Pectic substances
С	Solubilizers
D	Emulsifiers
E	Thickeners
N⁰	3) krok 2020
Topic	industrial production of soft dosage forms
Task	Specify the fluid used to coat the forms for pouring of the suppositories with hydrophilic vehicles:
Correct answer	Vaseline (petroleum jelly)
В	Purified water
С	Glycerine
D	Dimethylsulfoxide
Е	Glycerine-water solution
№	4) krok 2020
Topic	industrial production of Extracts. Tintures

	The phytochemical department of a pharmaceutical manufacture produces maximally purified extracts. In the
	process, specific methods are used for the extract purification. Which description corresponds with the dialysis
Task	method?
	The characteristic of biopolymer molecules that does not allow them to pass through semi-permeable
Correct answer	membranes
В	The process of electrolyte action
С	The process of heating the extract
D	The process of extraction from one liquid using another liquid
Е	The process of gas absorption
№	5) krok 2020
Topic	industrial production of Ear, eye, nasal medicinal forms
	A pharmaceutical company produces sterile aqueous solutions for eye rinsing and moisturizing, as well as for
Task	impregnation of the materials that are applied to the eyes topically. Name these solutions:
Correct answer	Eye lotions
В	Eye drops
С	Eye inserts
D	Eye sprays
Е	Eye ointments
Nº	6) krok 2020
Topic	industrial production of soft dosage forms
	A pharmaceutical factory produces ointments. Name the stage of the manufacturung process that allows to
Task	obtain a uniform ointment:
Correct answer	Ointment concentrate production
В	Mixing components with the vehicle
С	Vehicle production
D	Dispersion
Е	Homogenization

Nº	7) krok 2020
Topic	industrial production of tablet
	According to the State Pharmacopoeia of Ukraine, the tablets taken internally can be classified into several
Task	different types. The pulsatile release tablets can be classified as:
Correct answer	Modified-release tablets
В	Modified-release tablets
С	Chewable tablets
D	Effervescent tablets
E	Dispersible tablets
N⁰	8) krok 2020
Topic	industrial production of injection and infusion medicinal forms
Task	Name the main indicator that differentiates water for injection from purified water:
Correct answer	Apyrogenicity
В	pH value
С	The way in which it was obtained
D	Absence of mechanical inclusions
Е	Absence of heavy metals
N⁰	9) krok 2020
Topic	industrial production of injection and infusion medicinal forms
	A pharmacist has prepared an injection solution of ascorbic acid. What substance is necessary for solution
Task	stabilization in this case?
Correct answer	Sodium sulfite
В	Sodium chloride
С	Sodium acetate
D	Sodium citrate
Е	Sodium bromide
N⁰	10) krok 2020

Topic	industrial production of medical capsules
	To improve structural and mechanical properties of capsule shells, to ensure their proper elasticity and reduce
Task	their brittleness, the following substances are introduced into the gelatin mass:
Correct answer	Plasticizers
В	Thickeners
С	Stabilizers
D	Pigments
Е	Preservatives
Nº	11) krok 2020
Topic	industrial production of phyto- and organopreparations and biogenic stimulants
Task	A pharmacist prepares powders with riboflavin. How should riboflavin be introduced into the powder mixture?
Correct answer	"Three layers" method
В	Mix the components in the ascending . order based on their amount
С	Mix the components in the descending order based on their amount
D	Riboflavin powder should be sifted in advance
E	Riboflavin should be added on the top of the prepared mixture of other ingredients
N⁰	12) krok 2020
Topic	industrial production of Extracts. Tintures.
Task	When obtaining individial substances, the choice of an extractant is determined mainly by its:
Correct answer	Pharmacological inertness
В	Selectivity toward active substances
С	Cost
D	Anti-hydrolysis effect
Е	Thermostability
Nº	13) krok 2020
Торіс	industrial production of medical capsules

	Microcapsules are made by coating solid particles of the substance being encapsulated with a shell consisting
Task	of metallic silver, zinc, etc. Name this method of making microcapsules:
Correct answer	Galvanization
В	Pelleting
С	Slurrying of the nuclei
D	Coacervation
Е	Polymerization
Nº	14) krok 2020
Topic	industrial production of Extracts. Tintures.
Task	A pharmaceutical company produces galenic preparations. These preparations contain:
Correct answer	A sum of active substances
В	Only one active substance
С	Smell-correcting agents
D	Taste-correcting agents
Е	Preservatives
Nº	15) krok 2020
Topic	industrial production of soft dosage forms
Task	Aqueous lanolin consists of:
Correct answer	70 parts of anhydrous lanolin and 30 parts of water
В	80 parts of anhydrous lanolin and 20 parts of water
С	5 parts of anhydrous lanolin and 95 parts of water
D	50 parts of anhydrous lanolin and 50 parts of water
Е	90 parts of anhydrous lanolin and 10 parts of water
N⁰	16) krok 2020
Topic	industrial production of injection and infusion
	A certain injection solution cannot undergo thermal sterilization, because high temperatures lead to its
Task	hydrolysis with formation of formaldehyde and ammonia. Name this solution:

Correct answer	Hexamethylenetetramine solution
В	Glucose solution
С	Aminazine solution
D	Diprazine (promethazine) solution
Е	Novocaine (procaine) solution
N⁰	17) krok 2020
Topic	industrial production of soft dosage forms
	To prepare an ointment, a pharmacist has additionally used paraffin. What is the role of paraffin in the
Task	technology?
Correct answer	Densifier
В	Preservative
С	Vehicle
D	Emulsifier
E	Dispersing agent for powders
N⁰	18) krok 2020
Topic	industrial production of Extracts. Tintures
Task	The phytochemical workshop of a factory produces liquid extracts. What extractants are used in the manufacturing process?
Correct answer	Aqueous-alcoholic solutions
В	Water
С	Dichloroethane
D	Ammonia solution
Е	Chloroform
Nº	19) krok 2020
Topic	industrial production of Extracts. Tintures
Task	Specify a potent herbal raw material, infusion from which is made in 1:400 ratio:
Correct answer	Foxglove leaves

В	Motherwort grass
С	Sage leaves
D	Althaea roots
Е	Valerian roots and rhizomes
Nº	1) krok 2018
Topic	industrial production of pharmaceutical solutions
Task	A factrory workshop producing suspensions and emulsions is going to develop the manufacture of new drugs. What mechanisms can be used for the ultrasound processing of drugs?
Correct answer	Liquid whistle, magnetostrictive source
В	Dismembrator, electrical impulse plasmolyzer
С	Disintegrator, liquid whistle
D	Rotor-pulsation apparatus, dismembrator
Е	Centrifugal mixer with rotating housing
Nº	2) krok 2018
Topic	industrial production of tablet
Task	A pharmaceutical factory produces tablets of sodium chloride. What is the method of their poduction?
Correct answer	Direct compression without additional substances
В	Moulding
С	Direct compression with the addition of excipients
D	Wet granulation prior to compression
Е	Dry granulation prior to compression
N⁰	3) krok 2018
Topic	industrial production of tablet
Task	There are various groups of adjuvants used in tablet production. What is the function of excipients?
Correct answer	To make pills of a certain weight
В	To create necessary adhesive force between particles
С	To improve disintegration

D	To improve the flowability of granular material
Е	To improve the taste
№	4) krok 2018
Topic	Machines and apparatus
Task	Various types of dryers can be used for granule dehumidification. Specify the type of "SP-30" dryer:
Correct answer	Fluidized bed dryer
В	Freeze dryer
С	Infrared dryer
D	Silica gel dryer another liquid
Е	Forced air dryer
N⁰	5) krok 2018
Topic	industrial production of injection and infusion medicinal forms
Task	Ampoule workshop of a factory produces 5% oil solution of tocopherol acetate for injections. What method of filling the ampoules is optimal in this case?
Correct answer	Syringe
В	Vacuum
С	Devaporation
D	Syringe and vacuum
Е	Syringe and devaporation
No	6) krok 2018
Topic	industrial production of tablets
Task	Production of tablets requires stage-to- stage quality control. What devices are used to determine the particle size distribution (fraction) of granules?
Correct answer	Standard set of sieves
В	Various vibrosieves
С	Friabilators
D	Laboratory identifiers

Е	Microscope
N⁰	7) krok 2018
Topic	industrial production of tablet
Task	Among various types of tablet external layers there are enterosoluble coatings. Where in the body are they dissolved?
Correct answer	Intestine
В	Stomach
С	Oral cavity
D	Rectum
Е	Esophagus
N⁰	8) krok 2018
Topic	industrial production of injection and infusion medicinal forms
Task	Specify the control methods aimed at detecting mechanical impurities in parenteral solutions:
Correct answer	Visual optical
В	Limulus test
С	Amperometric
D	Gravitational
Е	NMR and UV-visible spectroscopy
N⁰	9) krok 2018
Topic	industrial production of injection and infusion medicinal forms
Task	What stage is the last in making injection solutions?
Correct answer	Labeling
В	Sterilization
С	Filtering
D	Qualitative control
Е	Quantitative control
№	10) krok 2018

Торіс	industrial production of powders
Task	Dosage precision during tablet making mainly depends on the following technological property of tablet mass:
Correct answer	Flowability
В	Relative density
С	Compression ratio
D	Compressibility
Е	Lyophilic property
N⁰	11) krok 2018
Topic	industrial production of Extracts. Tintures.
Task	Quality of dried extracts is assessed according to several criteria. Specify the highest acceptable amount of moisture in dried extracts according to the State Pharmacopoeia of Ukraine:
Correct answer	5%
В	25%
С	20%
D	75%
Е	95% prepared mixture of other ingredients
N⁰	12) krok 2018
Topic	industrial production of injection and infusion medicinal forms
Task	Tyndallization is used at a pharmaceutical factory as a sterilization method for thermolabile substances.
Tubic	Essentially this method consists of:
Correct answer	Triple heating of solution to 40-60oC with 24-hour-long intervals in between for thermostating
В	Autoclaving at 119-121oC with pressure at 1.0-1.1 atm
С	Sterilization with flowing steam at 100 <i>oC</i>
D	Sterilization with dry heat at 180-200oC for a lengthy period of time
Е	Sterilization with high-frequency and microwave frequency current
N⁰	13) krok 2018

Topic	industrial production of Extracts. Tintures
Task	When an extractant is filtered through a herbal raw material to obtain an extract of the substances soluble in
	this extractant, this process is called:
Correct answer	Percolation
В	Maceration
С	Remaceration
D	Turbo extraction
E	Steeping
N⁰	14) krok 2018
Торіс	industrial production of phyto- and organopreparations and biogenic stimulants
Task	Phytochemical workshop of a factory manufactures pancreatin. What is the source material for obtaining pancreatin?
Correct answer	Pancreas of pigs or cattle
В	Gastric mucosa of pigs
С	Lungs of cattle
D	Heart of cattle
Е	Egg white
N⁰	15) krok 2018
Торіс	industrial production of Extracts. Tintures
Task	The following substance is used as an extractant in production of liquid extracts:
Correct answer	Ethanol
В	Acetone
С	Dichloroethane
D	Chloroform
E	Glycerine
N⁰	16) krok 2018
Topic	industrial production of drugs under pressure

Task	Propellants are used in aerosols production. Specify the function of propellants:
Correct answer	Create pressure in the package
В	Action prolongation
С	Stabilization
D	Emulsification
Е	Dispersion
N⁰	17) krok 2018
Topic	industrial production of tablet
Task	What factors affect tablet disintegration?
Correct answer	Amount and nature of disintegrating agents
В	Poor flowability
С	High specific gravity of powders
D	Tablet powder contains lamellar crystals
Е	Heterogeneity of granulated material
N⁰	18) krok 2018
Topic	industrial production of Extracts. Tintures
Task	A pharmaceutical company produces belladonna tincture. In the process of standardization, excessive content of active substances was detected. How can this situation be remedied?
Correct answer	Dilute the tincture with extractant to normal concentration
В	Precipitate excessive active substances
С	Filter the tincture through adsorbent
D	The tincture is a non-recoverable reject material
Е	This kind of deviation is not important
N⁰	19) krok 2018
Topic	industrial production of tablets
Task	A pharmaceutical company produces tablets. Tabletting by means of direct compression requires:
Correct answer	No prior granulation

В	Prior granulation
С	Formation of masses
D	Prior homogenization
Е	Application of hydraulic press
№	20) krok 2018
Topic	industrial production of Soft dosage forms
Task	A pharmaceutical company produces suppositories made from thermolabile medicinal substances. What method is used in their production?
Correct answer	Pressing
В	Steeping
С	Pouring
D	Rolling
Е	Dispersion
№	21) krok 2018
Topic	Machines and apparatus
Task	A pharmaceutical company produces liquid dosage forms. What principle is used in rotary pulsation apparatus to obtain an emulsion?
Correct answer	Mechanical dispersion
В	Ultrasonic dispersion
С	Solubilization
D	Coacervation
E	Maceration
№	1) krok 2019
Topic	industrial production of tablets
Task	A tablet shop produces trituration tablets. What quality indicators ARE NOT relevant for these tablets?
Correct answer	Abrasion, resistance to crushing
В	Disintegration and dissolution

С	Homogeneity of dosage
D	Homogeneity of content
Е	Microbiological purity
N⁰	2) krok 2019
Topic	industrial production of medical capsules
Task	A pharmaceutist prepared some powders whose composition includes camphor. What capsules are required for their packaging?
Correct answer	Parchment
В	Paper
С	Waxed
D	Paraffin
Е	Cellophane
N⁰	3) krok 2019
Topic	industrial production of medical capsules
Task	While filling hard gelatin capsules such glidants as 0,1% - 0,3% aerosil or magnesium stearate along with 0,5% - 1% talc are often added to the filling agent in order to improve the following properties:
Correct answer	Flowability
В	Homogeneity
С	Regulation of moisture content
D	Homogeneity of mixing
Е	Ability to contact molding
N⁰	4) krok 2019
Topic	Machines and apparatus
Task	Grinding equipment is classified by the way of grinding. What kind of machi-nes does a roller crusher relate to?
Correct answer	Crushing
В	Cutting

С	Abrasive
D	Impact
Е	Impact-centrifugal
Nº	5) krok 2019
Topic	industrial production of tablets
Task	A tablet production unit produces presscoated tablets. What equipment is used for this purpose?
Correct answer	Double pressing tabletting machine
В	Dragee pan
С	Marmerizer
D	Eccentric tabletting machine
Е	Triturating machine
N⁰	6) krok 2019
Topic	industrial production of Extracts. Tintures
Task	A pharmaceutical enterprise produces a dense extract with 0,25% ammonia solution used as an extractant. This
1.45K	dense extract is:
Correct answer	Licorice
В	Sagebrush (Artemisia)
С	Valerian
D	Male fern
Е	Motherwort (Leonurus)
N⁰	7) krok 2019
Topic	industrial production of powders
Task	Preparation of multicomponent powders with phenyl salicylate and camphor is accompanied by generation of
	some fluid. What is the reason for their incompatibility?
Correct answer	Eutectic alloy formation
В	Adsorption
С	Crystallization water exudation

D	Hygroscopic components
Е	Gases separation
N⁰	8) krok 2019
Topic	industrial production of injection and infusion medicinal forms
Task	In the production of injection solutions the activated carbon is used as:
Correct answer	Purification
В	Buffer system creation
С	Antioxidant properties increasing
D	Chemical resistance of ampoule's glass increasing
Е	Ampoules residual stress relaxation
N⁰	9) krok 2019
Topic	industrial production of tablets.medicinal forms
Task	A pharmaceutical enterprise produces nitroglycerine tablets. What is the method of their production?
Correct answer	Extrusion
В	Direct pressing, without adjuvants
С	Direct pressing with addition of adjuvants
D	Pressing with preliminary wet granulation
Е	Pressing with preliminary dry granulation
N⁰	10) krok 2019
Topic	industrial production of powders
Taala	A pharmacy got an order for powders containing ascorbic acid and sodium hydrocarbonate. What process
Task	takes place between the ingredients?
Correct answer	Dampening
В	Oxidization
С	Absorption
D	Sedimentation
Е	Stratification

Nº	11) krok 2019
Topic	industrial production of drugs under pressure
Task	Aerosol department of a pharmaceutical factory uses condensed gases in the capacity of propellents. Which of the following substances relates to the group of condensed gases?
Correct answer	Freon
В	Nitrogen
С	Nitrous oxide
D	Methylene chloride
Е	Ethylene chloride
N⁰	12) krok 2019
Topic	industrial production of tablets
Task	A pharmaceutical factory produces tablets of sodium chloride. What is the method of their poduction?
Correct answer	Direct compression without additional substances
В	Moulding
С	Direct compression with the addition of excipients
D	Wet granulation prior to compression
E	Dry granulation prior to compression
№	13) krok 2019
Topic	industrial production of pharmaceutical solutions
Task	A pharmaceutical factory produces suspensions and emulsions. Specify the equipment which is used for
1 ask	dispersion and mixing in the liquid medium:
Correct answer	Rotor-pulsation apparatus, colloid mixers
В	Drum mixers
С	Oscillating mixers
D	Anchor mixers
E	Gate mixers
N⁰	14) krok 2019

Topic	industrial production of tablets
Task	Production of stage-to-stage quality control. What devices are used to determine the particle size distribution
	(fraction) of granules?
Correct answer	Standard set of sieves
В	Various vibrosieves
С	Friabilators
D	Laboratory IDs
Е	Microscope
No	15) krok 2019
Topic	industrial production of Extracts. Tintures
Task	It is required to prepare furacilin solution (1:5000). What is the dissolution peculiarity of furacilin?
Correct answer	It dissolves in the boiling water purified in the presence of sodium chloride
В	It dissolves in the cold purified water
С	It dissolves in a minimal amount of ethyl alcohol
D	It dissolves in the purified water after the trituration
Е	It dissolves in the filtered purified water
N⁰	16) krok 2019
Topic	industrial production of Extracts. Tintures
Teal	A pharmaceutist has to prepare an aqueous extract of medicinal plants. What can be used as a substitute of
Task	plant material in the drug preparation?
Correct answer	Standardized extract concentrate
В	Tinture
С	Liquid extract
D	Thick extract
Е	Aromatic water
N⁰	17) krok 2019
Topic	industrial production of injections and infusions

Task	Ampules are produced of glass with appropriate heat resistance. An ampule would meet the requirements of
Task	technical standards if the ampule glass has the following characteristic:
Correct answer	Thermal shock resistance
В	Easy cutting of capillaries
С	Quality ampule sealing
D	Withstanding the stresses during production and transportation
Е	Protection of light-sensitive materials
N⁰	18) krok 2019
Topic	industrial production of injections and infusions
Task	Ampule quality control involves testing for chemical resistance. What methods are used to test this indicator?
Correct answer	Various acid-base indicators, pH meter, gravimetric methods
В	Visual, gravimetric methods
С	Photoelastic method
D	Autoclaving followed by titration with a solution of hydrochloric acid
E	Exposing the glass samples to the action of sodium carbonate and sodium hydrocarbonate solutions
Nº	19) krok 2019
Topic	industrial production of tablets
Task	One of the recent industrial medical forms that is used in pediatric practice and intended for young children unable of swallowing tablets is:
Correct answer	Tubatines
В	Dragee
С	Spansules
D	Gelatin microcapsules
Е	Granules
N⁰	20) krok 2019
Topic	industrial production of Soft dosage forms

Taalr	A pharmaceutic plant producing aerosol forms uses liquefied gases as propellents. Which of the following
Task	substances relates to the group of liquefied gases?
Correct answer	Freons
В	Nitrogen
С	Nitrous oxide
D	Methylene chloride
Е	Ethylene chloride
N⁰	21) krok 2019
Topic	industrial production of injections and infusions
Task	Ampule workshop of a pharmaceutical factory produces the procaine hydrochloride solution. This solution is stabilized by adding:
Correct answer	0,1 mol/l of hydrochloric acid solution
В	0,1 mol/l of sodium hydroxide solution
С	0,1 mol/l of sodium hydrogen carbonate solution
D	20,0 of sodium hydrogen carbonate
E	1,5 g of aminopropylene glycol
N⁰	22) krok 2019
Topic	industrial production of Extracts. Tintures
Task	A pharmaceutical company produces concentrated extracts. Specify the concentration of ethanol in the extractant required for the production.
Correct answer	20-40%
В	90-96%
С	70-75%
D	50-60%
Е	70-90%
N⁰	23) krok 2019
Topic	industrial production of pharmaceutical solutions

Task	A factory workshop producing suspensions and emulsions is going to start manufacturing new drugs. What
	equipment can be used for the ultrasound processing of drugs?
Correct answer	Liquid whistle, magnetostrictive source
В	Dismembrator, electrical impulse plasmolyser
С	Disintegrator, liquid whistle
D	Rotor-pulsation apparatus, dismembrator
Е	Centrifugal mixer with rotating housing
N⁰	24) krok 2019
Topic	industrial production of soft dosage forms
Task	The ointment workshop of a pharmaceutical plant launches production of a new ointment. Specify the manufacturing operation that ensures equal distribution of the drug substance in the base
Correct answer	Homogenization
В	Preparation of the base
С	Standartization
D	Pre-packing
Е	Packaging
N⁰	25) krok 2019
Topic	industrial production of drugs under pressure
Task	The aerosol workshop of a pharmaceutical plant uses various groups of propellants in the production. What propellants relate to the group of volatile organic solvents?
Correct answer	Methyl chloride, ethylene chloride
В	Freon (CFCs)
С	Propane, butane, isobutene
D	Vinyl and methyl chloride
Е	Carbon dioxide
N⁰	26) krok 2019
Topic	industrial production of Extracts. Tintures

	The phytochemical workshop of a pharmaceutical plant manufactures liquid extracts. How many volume parts
Task	of the liquid extract can be produced from one weight part of herbal raw materials in compliance with the State Pharmacopoeia?
Correct answer	1 part
В	0,5 part
С	10 parts
D	5 parts
Е	3 parts
Nº	27) krok 2019
Topic	industrial production of injections and infusions
Task	Sterilization methods applied for the preparation of drugs under aseptic conditions can be differentiated into physical, mechanical, and chemical ones. Specify the chemical method of sterilization:
Correct answer	Addition of preservatives
В	Dry heat sterilization
С	Radiation sterilization
D	Pressure steam sterilization
Е	UV light sterilization
Nº	28) krok 2019
Торіс	industrial production of injections and infusions
Task	Which of the methods to fill ampoules with injectable solutions makes it possible to protect capillari-es from contamination with thick and viscous solutions?
Correct answer	Syringe
В	Vacuum
С	Turbo vacuum
D	Vapor condensation
Е	Squeezing-through
Nº	29) krok 2019

Topic	industrial production of injections and infusion
Task	Quality of ampouled injection solutions is tested as to various parameters. How many ampullae are to be
	checked for assessing the quality of sealing (hermeticity)?
Correct answer	100%
В	97%
С	80%
D	75%
Е	50%
N⁰	krok 2017-2018
Topic	Production of tinctures and extracts. Standardization.
Task	A pharmaceutical company produces a medicine under the brand name "Corglyconum". What herbal raw
	material is used in preparation of this drug?
Correct answer	Lily-of-the-valley grass
В	Wormwood grass
С	Dandelion roots
D	Plantain foliage
Е	Buckthorn bark
No	krok 2017-2018
Topic	Production of pharmaceutical solution
Task	A factrory workshop producing suspensions and emulsions is going to develop the manufacture of new drugs.
	What mechanisms can be used for the ultrasound processing of drugs?
Correct answer	Liquid whistle, magnetostrictive source
В	Dismembrator, electrical impulse plasmolyzer
С	Disintegrator, liquid whistle
D	Rotor-pulsation apparatus, dismembrator
E	Centrifugal mixer with rotating housing
Nº	krok 2017-2018
Topic	Industrial production of simple and complex powders
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Task	A pharmaceutical factory produces tablets of sodium chloride. What is the method of their poduction?
Correct answer	Direct compression without additional substances
В	Moulding
С	Direct compression with the addition of excipients
D	Wet granulation prior to compression
Е	Dry granulation prior to compression
N⁰	krok 2017-2018
Topic	Industrial production of simple and complex powders
Task	There are various groups of adjuvants used in tablet production. What is the function of excipients?
Correct answer	To make pills of a certain weight
В	To create necessary adhesive force between particles
С	To improve disintegration
D	To improve the flowability of granular material
Е	To improve the taste
N⁰	krok 2017-2018
Topic	Industrial production of simple and complex powders
Task	Various types of dryers can be used for granule dehumidification. Specify the type of "CLI-30" dryer:
Correct answer	Fluidized bed dryer
В	Freeze dryer
С	Infrared dryer
D	Silica gel dryer
Е	Forced air dryer
N₂	krok 2017-2018
Topic	Production of injection and infusion solutions
Task	Ampoule workshop of a factory produces 5% oil solution of tocopherol acetate for injections. What method of
	filling the ampoules is optimal in this case?

Correct answer	Syringe
В	Vacuum
С	Devaporation
D	Syringe and vacuum
E	Syringe and devaporation
Nº	krok 2017-2018
Topic	Industrial production of simple and complex powders
Task	Production of tablets requires stage-to- stage quality control. What devices are used to determine the particle
	size distribution (fraction) of granules?
Correct answer	Standard set of sieves
В	Various vibrosieves
С	Friabilators
D	Laboratory identifiers
E	Microscope
№	krok 2017-2018
Topic	Industrial production of simple and complex powders
Task	Among various types of tablet external layers there are enterosoluble coatings. Where in the body are they dissolved?
Correct answer	Intestine
В	Stomach
С	Oral cavity
D	Rectum
Е	Esophagus
Nº	krok 2017-2018
Topic	Production of injection and infusion solutions
Task	Specify the control methods aimed at detecting mechanical impurities in parenteral solutions:
Correct answer	Visual optical

В	Limulus test
С	Amperometric
D	Gravitational
Е	NMR and UV-visible spectroscopy
N⁰	krok 2017-2018
Topic	Production of injection and infusion solutions
Task	What stage is the last in making injection solutions?
Correct answer	Labeling
В	Sterilization
С	Filtering
D	Qualitative control
Е	Quantitative control
N⁰	krok 2017-2018
Topic	Production of injection and infusion solutions
Task	Specify the indicator that measures the total contribution of various solutes to the osmotic pressure of the
	solution:
Correct answer	Osmolality
В	Isohydricity
С	Isotonicity
D	Isoviscosity
Е	Apyrogenicity
N⁰	krok 2017-2018
Topic	Industrial production of simple and complex powders
Task	Dosage precision during tablet making mainly depends on the following technological property of tablet mass:
Correct answer	Flowability
В	Relative density

С	Compression ratio
D	Compressibility
Е	Lyophilic property
N⁰	krok 2017-2018
Topic	Production of tinctures and extracts. Standardization.
Task	Quality of dried extracts is assessed according to several criteria. Specify the highest acceptable amount of
	moisture in dried extracts according to the State Pharmacopoeia of Ukraine:
Correct answer	5%
В	25%
С	20%
D	75%
Е	95%
No	krok 2017-2018
Topic	Production of injection and infusion solutions
Task	Tyndallization is used at a pharmaceutical factory as a sterilization method for thermolabile substances.
	Essentially this method consists of:
Correct answer	Triple heating of solution to 40-60°C with 24-hour-long intervals in between for thermostating
В	Autoclaving at 119-121°C with pressure at 1.0-1.1 atm
С	Sterilization with flowing steam at 100°C
D	Sterilization with dry heat at 180-200°C for a lengthy period of time
Е	Sterilization with high-frequency and microwave frequency current
N⁰	krok 2017-2018
Topic	Production of tinctures and extracts. Standardization.
Task	When an extractant is filtered through a herbal raw material to obtain an extract of the substances soluble in
	this extractant, this process is called:
Correct answer	Percolation
В	Maceration

С	Remaceration
D	Turbo extraction
Е	Steeping
N⁰	krok 2017-2018
Topic	Industrial production of simple and complex powders
Task	Phyfochemical workshop of a factory manufactures pancreatin. What is the source material for obtaining pancreatin?
Correct answer	Pancreas of pigs or cattle
В	Gastric mucosa of pigs
С	Lungs of cattle
D	Heart of cattle
Е	Egg white
N⁰	krok 2017-2018
Topic	Production of tinctures and extracts. Standardization.
Task	The following substance is used as an extractant in production of liquid extracts:
Correct answer	Ethanol
В	Acetone
С	Dichloroethane
D	Chloroform
Е	Glycerine
N⁰	krok 2017-2018
Topic	Production of pressurized patches and medicines
Task	Propellants are used in aerosols production. Specify the function of propellants:
Correct answer	Create pressure in the package
В	Action prolongation
С	Stabilization
D	Emulsification

Е	Dispersion
№	krok 2017-2018
Topic	Industrial production of simple and complex powders
Task	What factors affect tablet disintegration?
Correct answer	Amount and nature of disintegrating agents
В	Poor flowability
С	High specific gravity of powders
D	Tablet powder contains lamellar crystals
Е	Heterogeneity of granulated material
N⁰	krok 2017-2018
Topic	Production of tinctures and extracts. Standardization.
Task	A pharmaceutical company produces essential oils via a method that consists of essential oil transfer into gas phase followed by its absorption with fats and then its extraction with alcohol. Name this method:
Correct answer	Enfleurage
В	Compression
С	Extraction
D	Hydrodistillation
Е	Dynamic sorption
№	krok 2017-2018
Topic	Production of tinctures and extracts. Standardization.
Task	A pharmaceutical company produces belladonna tincture. In the process of standardization, excessive content
	of active substances was detected. How can this situation be remedied?
Correct answer	Dilute the tincture with extractant to normal concentration
В	Precipitate excessive active substances
С	Filter the tincture through adsorbent
D	The tincture is a non-recoverable reject material

Е	This kind of deviation is not important
N⁰	krok 2017-2018
Topic	Production of tinctures and extracts. Standardization.
Task	The phytochemical workshop of a factory produces liquid extracts. What extractants are used in this
	manufacturing process?
Correct answer	Aqueous-alcoholic solutions
В	Chloroform
С	Ammonia solution
D	Dichloroethane
Е	Water
Nº	krok 2017-2018
Topic	Industrial production of simple and complex powders
Task	A pharmaceutical company produces tablets. Tabletting by means of direct compression requires:
Correct answer	No prior granulation
В	Prior granulation
С	Formation of masses
D	Prior homogenization
Е	Application of hydraulic press
Nº	krok 2017-2018
Topic	Technology of production of soft medicines
Task	A pharmaceutical company produces suppositories made from thermolabile medicinal substances. What
	method is used in their production?
Correct answer	Pressing
В	Steeping
С	Pouring
D	Rolling
Е	Dispersion

No	krok 2017-2018
Topic	Production of pharmaceutical solution
Task	A pharmaceutical company produces liquid dosage forms. What principle is used in rotary pulsation apparatus
	to obtain an emulsion?
Correct answer	Mechanical dispersion
В	Ultrasonic dispersion
С	Solubilization
D	Coacervation
Е	Maceration
№	krok 2017-2018
Topic	Production of tinctures and extracts. Standardization.
Task	A pharmaceutical company produces aromatic waters. Peppermint water should be prepared in the following
	proportion:
Correct answer	0,736111111
В	1,430555556
С	R4000
D	1:10
Е	1:01
№	krok 2017-2018
Topic	Technology of production of soft medicines
Task	A pharmaceutical company produces soft dosage forms. What indicator should be measured additionally for
	the soft dosage forms that are intended for application on heavily damaged skin?
Correct answer	Sterility
В	pH
С	Identification
D	Microbiological purity
Е	Quantitative determination

N⁰	krok 2017-2018
Topic	Industrial production of simple and complex powders
Task	A pharmaceutical company produces warious medicines. Name the dosage form consisting of separate hard
	dry particles disintegrated to varying degree:
Correct answer	Powders
В	Tablets
С	Suspensions
D	Emulsions
Е	Dried extract
N⁰	krok 2017-2018
Topic	Industrial production of simple and complex powders
Task	Core tablets that are to be made into dragees must not have a flat shape. Why such requirement is necessary?
Correct answer	To prevent them from adhesion to each other
В	They are not durable enough
С	To avoid prolonged contact with overlaying suspension
D	To improve their appearance
Е	To speed up the process of applying the coating
№	krok 2017-2018
Topic	Technology of production of soft medicines
Task	Name the optimal vehicle for soluble vaginal suppositories:
Correct answer	Polyethylene oxide
В	Cocoabutter
С	Glycerine
D	Fat
Е	Hard fat
Nº	krok 2017-2018

Topic	Industrial production of simple and complex powders
Task	What tablet coating protects stomach from harmful influence of active ingredients?
Correct answer	Intestinally absorbed
В	Water-soluble
С	Gastrically absorbed
D	Fat-soluble
Е	
N⁰	krok 2017-2018
Topic	Technology of production of soft medicines
Task	In the process of industrial production of rectal suppositories, certain substances insoluble both in water and
	suppository vehicle are introduced into this dosage form. Specify the optimal way to introduce these
	substances:
Correct answer	Introduce the substances as a suspension
В	Introduce the substances as an emulsion
С	Dissolve the substances in the water heated to $45^{\circ}C$
D	Melt a part of fatty vehicle and dissolve the substances there
Е	Melt all of fatty vehicle and dissolve the substances there
N⁰	krok 2017-2018
Topic	Technology of production of soft medicines
Task	In the process of industrial production, certain adjuvants are included in the soft dosage forms as pH
	regulators. Name these adjuvants:
Correct answer	Citric acid, sodium phosphate salts
В	Paraffin, spermaceti
С	Glycerine, dimethyl sulfoxide
D	Sodium lauryl sulfate, tween emulsifiers
Е	Benzalkonium chloride, benzyl alcohol

Nº	krok 2011, 2010
Topic	Industrial Technology Of Drugs
Task	For granule drying different types of dryers are used. The dryer SP-30 relates to the following type:
Correct answer	Withfluidized bed
В	Sublimation
С	Infrared
D	With silica gel column
Е	With a forced air circulation
№	krok 2011, 2010
Topic	Industrial Technology Of Drugs
Task	One of the tablet coatings is enterosoluble capsule. They get solved in:
Correct answer	Bowels
В	Stomach
С	Oral cavity
D	Rectum
E	—
№	krok 2011, 2010
Topic	Manufacture Of Pharmaceutical Solutions.
Task	A pharmaceutist prepared eyedrops with boric acid. What sterilization method was applied?
Correct answer	Sterilization by saturation vaporpressure
В	Tyndallization
С	Sterilization by dry heat
D	Sterilization by gases
Е	By high-frequency current
Nº	krok 2011
Topic	Production Of Injection and Infusion Solutions.

Task	Which of the listed methods of filling ampoules with injectable solutions can protect the capillaries from
	contamination with thick and viscous solutions?
Correct answer	Syringe method
В	Vacuum method
С	Turbo-vacuum method
D	Steam condensing method
E	Solution squeezing method
№	krok 2011
Topic	Production Of Injection and Infusion Solutions.
Task	Production of injection solutions involves an operation of solution filtration. What filters are used for sterile
	filtration?
Correct answer	Filter candles
В	Nutschfilters
С	FilterdevelopedbytheKharkiv Chemo pharmaceutic Research Institute
D	Pressurefilters
E	Mushroomfilter
№	krok 2011
Topic	Industrial Technology Of Drugs
Task	A tablet shop produces trituration tablets. What quality indicators ARENOT relevant for these tablets?
Correct answer	Abrasion, resistance to crushing
В	Disintegration and dissolution
С	Homogeneity of dosage
D	Homogeneity of content
Е	Microbiological purity
№	krok 2010
Topic	Industrial Production Of Simple and Complex Powders.

Task	A pharmaceutist prepared some powders whose composition includes camphor. What capsules are required for
	their packaging?
Correct answer	Parchment
В	Paper
С	Waxed
D	Paraffin
E	Cellophane
№	krok 2011
Topic	Industrial Production Of Simple and Complex Powders.
Task	A pharmacy received a prescription for a topical powder including a substance that is hard to disperse. Which of the listed fluids may be used for dispersing the substance?
Correct answer	Diethyl ether
В	Purified water
С	Water for injections
D	Dimexid
Е	Isopropyl alcohol
№	krok 2011
Topic	Industrial Technology Of Drugs
Task	While filling hard gelatin capsules such glidants as 0,1% - 0,3% aerosil or magnesium stearate along with 0,5% - 1% talc are often added to the filling agent in order to improve the following properties:
Correct answer	Flowability
В	Homogeneity
С	Regulation of moisture content
D	Homogeneity of mixing
Е	Ability to contact molding
№	krok 2011
Торіс	Industrial Technology Of Drugs

Task	Grinding equipment is classified by the way of grinding. What kind of machi-nes does a roller crusher relate
	to?
Correct answer	Crushing
В	Cutting
С	Abrasive
D	Impact
E	Impact-centrifugal
Nº	krok 2010
Topic	Industrial Technology Of Drugs
Task	A tablet production unit produces presscoated tablets. What equipment is used for this purpose?
Correct answer	Double pressing tabletting machine
В	Dragee pan
С	Marmerizer
D	Eccentric tabletting machine
E	Triturating machine
N⁰	krok 2010
Topic	Production Of Tinctures and Extracts Standardization.
Task	A pharmaceutical enterprise produces a dense extract with 0,25% ammonia solution used as an extractant. This
	dense extract is:
Correct answer	Licorice
В	Sagebrush (Artemisia)
С	Valerian
D	Male fern
E	Motherwort (Leonurus)
Nº	krok 2010
Topic	Industrial production of simple and complex powders

Task	A pharmaceutist-technologist has to prepare a medication with the following formulation: Rp.: Mentholi 0,1
	Glycerini 10,0 M.D.S. Nasal drops. What is the reason for their incompatibility?
Correct answer	Insolubility of ingredients
В	Separation of the mixture
С	Adsorption of the medicinal agent
D	Eutectic alloy formation
Е	Coagulation of colloidal system
№	krok 2010
Topic	Industrial production of simple and complex powders
Task	Preparation of multicomponent powders with phenyl salicylate and camphor is accompanied by generation of some fluid. What is the reason for their incompatibility?
Correct answer	Eutectic alloy formation
В	Adsorption
С	Crystallization water exudation
D	Hygroscopic components
Е	Gases separation
№	krok 2010
Topic	Production of injection and infusion solutions
Task	In the production of injection solutions the activated carbon is used as:
Correct answer	Purification
В	Buffer system creation
С	Antioxidant properties increasing
D	Chemical resistance of ampoule's glass increasing
E	Ampoules residual stress relaxation
Nº	krok 2010
Topic	Industrial production of simple and complex powders
Task	A pharmaceutical enterprise produces nitroglycerine tablets. What is the method of their production?

Correct answer	Extrusion
В	Direct pressing, without adjuvants
С	Direct pressing with addition of adjuvants
D	Pressing with preliminary wet granulation
Е	Pressing with preliminary dry granulation
N⁰	krok 2010, 2009
Topic	Industrial production of simple and complex powders
Task	A pharmacy got an order for powders containing ascorbic acid and sodium hydrocarbonate. What process
	takes place between the ingredients?
Correct answer	Dampening
В	Oxidization
С	Absorption
D	Sedimentation
Е	Stratification
N⁰	krok 2010, 2009
Topic	prodaction of pressurized patches and medicines
Task	Aerosol department of apharmaceutical factory uses condensed gases in the capacity of propellents. Which of the following substances relates to the group of condensed gases?
Correct answer	Freon
В	Nitrogen
С	Nitrous oxide
D	Methylene chloride
Е	Ethylene chloride
N⁰	krok 2013
Торіс	Manufacture of pharmaceutical solutions
Task	A pharmacy prepared a solution of macromolecular substance with limited swelling capacity. What solution was labelled <i>"warm up before use"</i> ?

Correct answer	Gelatin
В	Trypsin
С	Pepsin
D	Methyl cellulose
E	Pancreatin
N⁰	krok 2013
Topic	Industrial production of simple and complex powders
Task	A pharmaceutical factory produces tablets of sodium chloride. What is the method of their poduction?
Correct answer	Direct compression without additional substances
В	Moulding
С	Direct compression with the addition of excipients
D	Wet granulation prior to compression
E	Dry granulation prior to compression
N⁰	krok 2013
Topic	Manufacture of pharmaceutical solutions
Task	A pharmaceutical factory produces suspensions and emulsions. Specify the equipment which is used for
	dispersion and mixing in the liquid medium:
Correct answer	Rotor-pulsation apparatus, colloidmixers
В	Drum mixers
С	Oscillating mixers
D	Anchor mixers
E	Gate mixers
N⁰	krok 2013
Topic	Industrial production of simple and complex powders
Task	Production of tablets requires stage-to-stage quality control. What devices are used to determine the particle
	size distribution (fraction) of granules?
Correct answer	Standard set of sieves

В	Various vibrosieves
С	Friabilators
D	Laboratory IDs
Е	Microscope
N⁰	krok 2013
Topic	Industrial production of simple and complex powders
Task	Pharmacies prepare triturations of toxic and superpotent substances. They can be prepared in a following ratio:
Correct answer	1:10 and 1:100
В	1:10 only
С	0,736111111
D	0,38888889
Е	1:100 only
N⁰	krok 2013
Topic	Manufacture of pharmaceutical solutions
Task	It is required to prepare furacilin solution (1:5000). What is the dissolution peculiarity of furacilin?
Correct answer	It dissolves in the boiling water purified in the presence of sodium chloride
В	It dissolves in the cold purified water
С	It dissolves in a minimal amount ofethyl alcohol
D	It dissolves in the purified water after the trituration
Е	It dissolves in the filtered purified water
N⁰	krok 2013
Topic	Industrial production of simple and complex powders
Task	A pharmaceutist prepares powders with papaverine hydrochloride. What hand scales should be used for
	weighing out 0,05 g of substance?
Correct answer	BP 1,0
В	BP 5,0

С	BP 20,0
D	BP 10,0
Е	BP 2,0
№	krok 2013
Topic	Production of tinctures and extracts. Standardization
Task	A pharmaceutist has to prepare an aqueous extract of medicinal plants. What can be used as a substitute of
	plant material in the drug preparation?
Correct answer	Standardized extract concentrate
В	Tincture
С	Liquid extract
D	Thick extract
E	Aromatic water
N⁰	krok 2013, 2012
Topic	Industrial production of simple and complex powders
Task	A pharmacy received a prescription: Rp.: Dibazoli 0,05 Papaverini hydrochloridi 0,15 Sacchari 2,5 M. fiat
	pulv. Divide in partes aequales №10. Specify the weight of a single powder dose:
Correct answer	0,27
В	2,7
С	0,25
D	0,26
E	0,3
N⁰	krok 2013
Topic	production of injection and infusion solution
Task	Ampules are produced of glass with appropriate heat resistance. An ampule would meet the requirements of
	technical standards if the ampule glass has the following characteristic:
Correct answer	Thermal shock resistance
В	Easy cutting of capillaries

С	Quality ampule sealing
D	Withstanding the stresses duringproduction and transportation
Е	Protection of light-sensitive materials
№	krok 2013
Topic	production of injection and infusion solution
Task	Ampule quality control involves testing for chemical resistance. What methods are used to test this indicator?
Correct answer	Various acid-base indicators, pH meter, gravimetric methods
В	Visual, gravimetric methods
С	Photoelastic method
D	Autoclaving followed by titration with a solution of hydrochloric acid
Е	Exposing the glass samples to the action of sodium carbonate and sodium hydrocarbonate solutions
№	krok 2013
Topic	Technology of production of soft medicines
Task	A pharmaceutist prepared the massage cream of the following composition: Beeswax 12,0 Almond oil 68,5 Spermaceti 12,0 Anhydrous lanolin 7,5 Essential oil of lavender 3 drops. Specify the cream type:
Correct answer	Oily
В	Non-oily
С	Emulsion
D	Suspension
Е	Combined
N⁰	krok 2013
Topic	Industrial production of simple and complex powders
Task	One of the recent industrial medical forms that is used in pediatric practice and intended for young children
	unable of swallowing tablets is:
Correct answer	Tubatines
В	Dragee

С	Spansules
D	Gelatin microcapsules
Е	Granules
N⁰	krok 2013, 2012
Topic	prodaction of pressurized patches and medicines
Task	A pharmaceutic plant producing aerosol forms uses liquefied gases as propellents. Which of the following substances relates to the group of liquefied gases?
Correct answer	Freons
В	Nitrogen
С	Nitrous oxide
D	Methylene chloride
Е	Ethylene chloride
N⁰	krok 2013
Topic	Manufacture of pharmaceutical solutions
Task	A pharmaceutist has to prepare a drug by the prescription: Rp.: Natrii hydrocarbonatis 2,0 Natrii benzoatis 1,5 Liquoris Ammonii anisatis 4 ml Aquae Mentae 100 ml M.D.S. 1 tablespoon 3 times a day. Specify the component that is added in the first place:
Correct answer	Mint water
В	Sugar syrup
С	Liquoris Ammonii anisatis
D	Sodium hydrogen carbonate
Е	Sodium benzoate
N⁰	krok 2013
Topic	Manufacture of pharmaceutical solutions
Task	Ampule workshop of a pharmaceutical factory produces the procaine hydrochloride solution. This solution is stabilized by adding:
Correct answer	0,1 mol/l of hydrochloric acid solution

В	0,1 mol/l of sodium hydroxide solution
С	0,1 mol/l of sodium hydrogen carbonatesolution
D	20,0 of sodium hydrogen carbonate
Е	1,5 g of aminopropylene glycol
N⁰	krok 2014
Topic	Production of Tinctures and Extracts Standardization.
Task	A pharmaceutical company produces concentrated extracts. Specify the concentration of ethanol in the extractant required for the production.
Correct answer	20-40%
В	90-96%
С	70-75%
D	50-60%
Е	70-90%
N⁰	krok 2014
Topic	Production of pharmaceutical solution
Task	A factory workshop producing suspensions and emulsions is going to start manufacturing new drugs. What
	equipment can be used for the ultrasound processing of drugs?
Correct answer	Liquid whistle, magnetostrictive source
В	Dismembrator, electrical impulse plasmolyser
С	Disintegrator, liquid whistle
D	Rotor-pulsation apparatus, dismembrator
Е	Centrifugal mixer with rotating housing
N⁰	krok 2014
Topic	Technology of production of soft medicines
Task	The ointment workshop of a pharmaceutical plant launches production of a new ointment. Specify the
	manufacturing operation that ensures equal distribution of the drug substance in the base
Correct answer	Homogenization

В	Preparation of the base
С	Standartization
D	Pre-packing
Е	Packaging
N⁰	krok 2014
Topic	Production of pressurized patches and medicines
Task	The aerosol workshop of a pharmaceutical plant uses various groups of propellants in the production. What propellants relate to the group of volatile organic solvents?
Correct answer	Methyl chloride, ethylene chloride
В	Freon (CFCs)
С	Propane, butane, isobutene
D	Vinyl and methyl chloride
Е	Carbon dioxide
N⁰	krok 2014 2012
Topic	Production of Tinctures and Extracts Standardization.
Task	The phytochemical workshop of a pharmaceutical plant manufactures liquid extracts. How many volume parts of the liquid extract can be produced from one weight part of herbal raw materials in compliance with the State Pharmacopoeia?
Correct answer	1 part
В	0,5 part
С	10 parts
D	5 parts
E	3 parts
N⁰	krok 2014
Topic	Industrial production of simple and complex powders
Task	An analytical chemist of the quality control department of a pharmaceutical plant has to determi-ne the average weight of glibenclami-de tablets. How many tablets should be tested for this purpose?

Correct answer	20
В	10
С	5
D	50
Е	30
N⁰	krok 2014
Topic	Production of injection and infusion solutions
Task	Sterilization methods applied for the preparation of drugs under aseptic conditions can be differentiated into
	physical, mechanical, and chemical ones. Specify the chemical method of sterilization:
Correct answer	Addition of preservatives
В	Dry heat sterilization
С	Radiation sterilization
D	Pressure steam sterilization
E	UV light sterilization
N⁰	krok 2014
Topic	Production of injection and infusion solutions
Task	Which of the methods to fill ampoules with injectable solutionsmakes it possible to protect capillari-es from contamination with thick and viscous solutions?
Correct answer	Syringe
В	Vacuum
С	Turbo vacuum
D	Vapor condensation
Е	Squeezing-through
№	krok 2014
Topic	Production of injection and infusion solutions
Task	Quality of ampouled injection solutions is tested as to various parameters. How many ampullae are to be checked for assessing the quality of sealing (hermeticity)?

Correct answer	100%
В	97%
С	80%
D	75%
E	50%
N⁰	krok 2009
Topic	Production of pressurized patches and medicines
Task	Aerosol production involves usage of propellents relating to different groups. Choose the propellants that relate
	to the group of volatile organic solvents:
Correct answer	Freons
В	Methylene chloride, ethylene chloride
С	Propane, butane, isobutane
D	Vinyl chloride and methyl chloride
E	Carbon dioxide
N⁰	krok 2009
Topic	Technology of production of soft drugs
Task	A pharmaceutical factory produces camphor oil for topical application. What oil is to be used as a solvent?
Correct answer	Sunflower seed
В	Peach
С	Vaseline
D	Olive
Е	Plum
N⁰	krok 2009
Topic	Industrial production of simple and complex powders

Task	Adjuvant substances in the production of tablets give the tableted mass all necessary technological properties,
	ensure dosage precision, mechanical strength and stability of tablets during their storage. What adjuvant
	substances facilitate disintegration or solution of the tablets in the organism?
Correct answer	Disintegrants
В	Antifriction agents
С	Lubricants
D	Filling agents
E	Flavors
Nº	krok 2009
Topic	Manufacture of tinctures and extracts. Standardization
Task	A phytochemical department of a pharmaceutical factory produces valerian tincture of fresh material.
	Technological peculiarity of its production is that it should be produced on the base of:
Correct answer	70% ethanol with the ratio 1:5
В	70% ethanol with the ratio 1:10
С	90% ethanol with the ratio 1:5
D	90% ethanol with the ratio 1:10
E	95% ethanol with the ratio 1:10
N⁰	krok 2009
Topic	Manufacture of tinctures and extracts. Standardization
Task	A phytochemical department of a pharmaceutical factory produces biogenic stimulators out of different raw
	materials. Specify the plantderived biogenic stimulators:
Correct answer	Liquid extract of aloe, aloe liniment, aloe juice, biosedum
В	Liquid extract of aloe, peloidinum, biosedum juice
С	Peloidinum, humisolum, torfotum, Fibspro injectionibus
D	Vitreous body, Suspesio Placetae proinjectionibus, aloe juice, biosedum
Е	Peloidinum, humisolum, torfotum, plasmol, solcoseryl
Nº	krok 2009

Topic	Technology of production of soft drugs
Task	Lipophilic bases for suppositories include:
Correct answer	Mixtures of hydrogenatedd fats
В	Polyethylene oxide base
С	Gelatin-glycerol base
D	Collagen base
Е	Glycerol soap base
N⁰	krok 2009
Topic	Manufacture of tinctures and extracts. Standardization
Task	While producing phytopreparations and organotherapeutic preparations different kinds of dryers are used. What dryer would be the most effective for drying thermolabile compounds?
Correct answer	Freeze-dryer
В	Roller dryer
С	Band dryer
D	Drying oven
Е	Drum dryer
N⁰	krok 2009
Topic	Production of injection and infusion solutions
Task	All the medications require special storage conditions according to their physical and physicochemical properties. Ampouled solution of sodium adenosine triphosphate (ATP) should be stored under the following temperature:
Correct answer	$3 - 5^{o} C$
В	$0-2^{o}C$
С	$7 - 10^{o} C$
D	$10^{\circ} C$
Е	$12 - 15^{o} C$

N⁰	krok 2013
Topic	Preparation of aqueous and non-aqueous solutions. Evaluation of the quality of solutions
Task	The simple sugar syrup consists of:
Correct answer	64 parts of sugar and 36 parts of water
В	73 parts of sugar, 22 parts of water, 5parts of 90% alcohol
С	50 parts of sugar and 50 parts of water
D	65 parts of sugar, 33 parts of water, 2parts of 90% alcohol
Е	45 parts of sugar and 55 parts of water
N⁰	krok 2017-2018
Topic	Production of tinctures and extracts. Standardization
Task	A pharmaceutical company produces a medicine under the brand name "Corglyconum". What herbal raw
	material is used in preparation of this drug?
Correct answer	Lily-of-the-valley grass
В	Wormwood grass
С	Dandelion roots
D	Plantain foliage
Е	Buckthorn bark
N⁰	krok 2017-2018
Topic	Production of emulsions, suspensions
Task	A factrory workshop producing suspensions and emulsions is going to develop the Production of new drugs.
	What mechanisms can be used for the ultrasound processing of drugs?
Correct answer	Liquid whistle, magnetostrictive source
В	Dismembrator, electrical impulse plasmolyzer
С	Disintegrator, liquid whistle
D	Rotor-pulsation apparatus, dismembrator
Е	Centrifugal mixer with rotating housing
N⁰	krok 2017-2018

Topic	Industrial production of simple and complex powders
Task	A pharmaceutical factory produces tablets of sodium chloride. What is the method of their poduction?
Correct answer	Direct compression without additional substances
В	Moulding
С	Direct compression with the addition of excipients
D	Wet granulation prior to compression
E	Dry granulation prior to compression
N⁰	krok 2017-2018
Topic	Industrial production of simple and complex powders
Task	There are various groups of adjuvants used in tablet production. What is the function of excipients?
Correct answer	To make pills of a certain weight
В	To create necessary adhesive force between particles
С	To improve disintegration
D	To improve the flowability of granular material
E	To improve the taste
№	krok 2017-2018
Topic	Industrial production of simple and complex powders
Task	Various types of dryers can be used for granule dehumidification. Specify the type of "SP-30" dryer:
Correct answer	Fluidized bed dryer
В	Freeze dryer
С	Infrared dryer
D	Silica gel dryer
E	Forced air dryer
N⁰	krok 2017-2018
Topic	Production of injection and infusion solutions
Task	Ampoule workshop of a factory produces 5% oil solution of tocopherol acetate for injections. What method of
	filling the ampoules is optimal in this case?

Correct answer	Syringe
В	Vacuum
С	Devaporation
D	Syringe and vacuum
Е	Syringe and devaporation
N⁰	krok 2017-2018
Topic	Industrial production of simple and complex powders
Task	Production of tablets requires stage-to- stage quality control. What devices are used to determine the particle
	size distribution (fraction) of granules?
Correct answer	Standard set of sieves
В	Various vibrosieves
С	Friabilators
D	Laboratory identifiers
E	Microscope
№	krok 2017-2018
Topic	Industrial production of simple and complex powders
Task	Among various types of tablet external layers there are enterosoluble coatings. Where in the body are they dissolved?
Correct answer	Intestine
В	Stomach
С	Oral cavity
D	Rectum
Е	Esophagus
№	krok 2017-2018
Topic	Production of injection and infusion solutions
Task	Specify the control methods aimed at detecting mechanical impurities in parenteral solutions:
Correct answer	Visual optical

В	Limulus test
С	Amperometric
D	Gravitational
Е	NMR and UV-visible spectroscopy
N⁰	krok 2017-2018
Topic	Production of injection and infusion solutions
Task	What stage is the last in making injection solutions?
Correct answer	Labeling
В	Sterilization
С	Filtering
D	Qualitative control
Е	Quantitative control
N⁰	krok 2017-2018
Topic	Production of injection and infusion solutions
Task	Specify the indicator that measures the total contribution of various solutes to the osmotic pressure of the
	solution:
Correct answer	Osmolality
В	Isohydricity
С	Isotonicity
D	Isoviscosity
Е	Apyrogenicity
N⁰	krok 2017-2018
Topic	Industrial production of simple and complex powders
Task	Dosage precision during tablet making mainly depends on the following technological property of tablet mass:
Correct answer	Flowability
В	Relative density

С	Compression ratio
D	Compressibility
Е	Lyophilic property
N⁰	krok 2017-2018
Topic	Production of tinctures and extracts. Standardization
Task	Quality of dried extracts is assessed according to several criteria. Specify the highest acceptable amount of
	moisture in dried extracts according to the State Pharmacopoeia of Ukraine:
Correct answer	5%
В	25%
С	20%
D	75%
Е	95%
N⁰	krok 2017-2018
Topic	Production of injection and infusion solutions
Task	Tyndallization is used at a pharmaceutical factory as a sterilization method for thermolabile substances.
	Essentially this method consists of:
Correct answer	Triple heating of solution to $40-60 \circ C$ with 24-hour-long intervals in between for thermostating
В	Autoclaving at 119-121oC with pressure at 1.0-1.1 atm
С	Sterilization with flowing steam at 100 <i>oC</i>
D	Sterilization with dry heat at $180-200 \circ C$ for a lengthy period of time
Е	Sterilization with high-frequency and microwave frequency current
N⁰	krok 2017-2018
Topic	Production of tinctures and extracts. Standardization
Task	When an extractant is filtered through a herbal raw material to obtain an extract of the substances soluble in
	this extractant, this process is called:
Correct answer	Percolation
В	Maceration

С	Remaceration
D	Turbo extraction
Е	Steeping
N⁰	krok 2017-2018
Topic	Production of organic preparations
Task	Phytochemical workshop of a factory Productions pancreatin. What is the source material for obtaining pancreatin?
Correct answer	Pancreas of pigs or cattle
В	Gastric mucosa of pigs
С	Lungs of cattle
D	Heart of cattle
Е	Egg white
N⁰	krok 2017-2018
Topic	Production of tinctures and extracts. Standardization
Task	The following substance is used as an extractant in production of liquid extracts:
Correct answer	Ethanol
В	Acetone
С	Dichloroethane
D	Chloroform
Е	Glycerine
N⁰	krok 2017-2018
Topic	Production of plasters and medicines under pressure
Task	Propellants are used in aerosols production. Specify the function of propellants:
Correct answer	Create pressure in the package
В	Action prolongation
С	Stabilization
D	Emulsification

Е	Dispersion
№	krok 2017-2018
Topic	Industrial production of simple and complex powders
Task	What factors affect tablet disintegration?
Correct answer	Amount and nature of disintegrating agents
В	Poor flowability
С	High specific gravity of powders
D	Tablet powder contains lamellar crystals
E	Heterogeneity of granulated material
N⁰	krok 2017-2018
Topic	Production of tinctures and extracts. Standardization
Task	A pharmaceutical company produces essential oils via a method that consists of essential oil transfer into gas phase followed by its absorption with fats and then its extraction with alcohol. Name this method:
Correct answer	Enfleurage
В	Compression
С	Extraction
D	Hydrodistillation
E	Dynamic sorption
№	krok 2017-2018
Topic	Production of tinctures and extracts. Standardization
Task	A pharmaceutical company produces belladonna tincture. In the process of standardization, excessive content of active substances was detected. How can this situation be remedied?
Correct answer	Dilute the tincture with extractant to normal concentration
В	Precipitate excessive active substances
С	Filter the tincture through adsorbent
D	The tincture is a non-recoverable reject material

Е	This kind of deviation is not important
№	krok 2017-2018
Topic	Production of tinctures and extracts. Standardization
Task	The phytochemical workshop of a factory produces liquid extracts. What extractants are used in this
	manufacturing process?
Correct answer	Aqueous-alcoholic solutions
В	Chloroform
С	Ammonia solution
D	Dichloroethane
Е	Water
N⁰	krok 2017-2018
Topic	Industrial production of simple and complex powders
Task	A pharmaceutical company produces tablets. Tabletting by means of direct compression requires:
Correct answer	No prior granulation
В	Prior granulation
С	Formation of masses
D	Prior homogenization
Е	Application of hydraulic press
N⁰	krok 2017-2018
Topic	Technology of production of soft drugs
Task	A pharmaceutical company produces suppositories made from thermolabile medicinal substances. What
	method is used in their production?
Correct answer	Pressing
В	Steeping
С	Pouring
D	Rolling
E	Dispersion

Nº	krok 2017-2018
Topic	Production of emulsions, suspensions
Task	A pharmaceutical company produces liquid dosage forms. What principle is used in rotary pulsation apparatus to obtain an emulsion?
Correct answer	Mechanical dispersion
В	Ultrasonic dispersion
С	Solubilization
D	Coacervation
Е	Maceration
N⁰	krok 2017-2018
Topic	Production of pharmaceutical solutions
Task	A pharmaceutical company produces aromatic waters. Peppermint water should be prepared in the following
	proportion:
Correct answer	0,736111111
В	1,430555556
С	2,81944444
D	1:10
E	1:01
N⁰	krok 2017-2018
Topic	echnology of production of soft drugs
Task	A pharmaceutical company produces soft dosage forms. What indicator should be measured additionally for
	the soft dosage forms that are intended for application on heavily damaged skin?
Correct answer	Sterility
В	pH
С	Identification
D	Microbiological purity
E	Quantitative determination

N⁰	krok 2017-2018
Topic	Industrial production of simple and complex powders
Task	A pharmaceutical company produces warious medicines. Name the dosage form consisting of separate hard
	dry particles disintegrated to varying degree:
Correct answer	Powders
В	Tablets
С	Suspensions
D	Emulsions
E	Dried extract
N⁰	krok 2017-2018
Topic	Industrial production of simple and complex powders
Task	Core tablets that are to be made into dragees must not have a flat shape. Why such requirement is necessary?
Correct answer	To prevent them from adhesion to each other
В	They are not durable enough
С	To avoid prolonged contact with overlaying suspension
D	To improve their appearance
E	To speed up the process of applying the coating
№	krok 2017-2018
Topic	Technology of production of soft drugs
Task	Name the optimal vehicle for soluble vaginal suppositories:
Correct answer	Polyethylene oxide
В	Cocoa butter
С	Glycerine
D	Fat
E	Hard fat
№	krok 2017-2018

Topic	Industrial production of simple and complex powders
Task	What tablet coating protects stomach from harmful influence of active ingredients?
Correct answer	Intestinally absorbed
В	Water-soluble
С	Gastrically absorbed
D	Fat-soluble
Е	-
N⁰	krok 2017-2018
Topic	Technology of production of soft drugs
Task	In the process of industrial production of rectal suppositories, certain substances insoluble both in water and
	suppository vehicle are introduced into this dosage form. Specify the optimal way to introduce these
	substances:
Correct answer	Introduce the substances as a suspension
В	Introduce the substances as an emulsion
С	Dissolve the substances in the water heated to $45 \circ C$
D	Melt a part of fatty vehicle and dissolve the substances there
Е	Melt all of fatty vehicle and dissolve the substances there
N⁰	krok 2017-2018
Topic	Technology of production of soft drugs
Task	In the process of industrial production, certain adjuvants are included in the soft dosage forms as pH
	regulators. Name these adjuvants:
Correct answer	Citric acid, sodium phosphate salts
В	Paraffin, spermaceti
С	Glycerine, dimethyl sulfoxide
D	Sodium lauryl sulfate, tween emulsifiers
Е	Benzalkonium chloride, benzyl alcohol