**Modern technologies and technical means in plant growing and forestry**

**QUESTIONS**

###0001

Methods of clearing forested regions

{ Block }=1

{ A source }= M.K. Asmolovsky Mechanization of forestry and landscape gardening : study guide / M.K. Asmolovsky; BSTU. - Mn., 2004– - 4 – 8p.

###0002

The structure and operational concept of a brush cutter.

{ Block }=1

{A source}= M.K. Asmolovsky Mechanization of forestry and landscape gardening : study guide / M.K. Asmolovsky; BSTU. - Mn., 2004 – 9-13 p.

###0003

Implementing sustainable forest management practices yields environmental advantages, especially in terms of biodiversity preservation and ecosystem impact reduction.

{ Block }=1

{A source}= M.K. Asmolovsky Mechanization of forestry and landscape gardening : study guide / M.K. Asmolovsky; BSTU. - Mn., 2004. – 14-15 p.

###0004

Which aspects are important to consider when selecting uprooting techniques in forest management to maintain a harmony between effectiveness and sustainability?

{ Block }=1

{A source}= M.K. Asmolovsky Mechanization of forestry and landscape gardening : study guide / M.K. Asmolovsky; BSTU. - Mn., 2004. – 16-18 p.

###0005

Which design characteristics do you believe hold the utmost significance in uprooting machinery for both effective and sustainable harvesting?

{ Block}=1

{A source}= M.K. Asmolovsky Mechanization of forestry and landscape gardening : study guide / M.K. Asmolovsky; BSTU. - Mn., 2004. – 19-22 p.

###0006

Methods, machines, and technology for establishing gardens.

{Block}=1

{A source}= M.K. Asmolovsky Mechanization of forestry and landscape gardening : study guide / M.K. Asmolovsky; BSTU. - Mn., 2004.– 23-26 p.

###0007

Operation principle of the MLF-0,8 machine

{ Block }=1

{A source}= M.K. Asmolovsky Mechanization of forestry and landscape gardening : study guide / M.K. Asmolovsky; BSTU. - Mn., 2004. – 27 p.

###0008

Knot pickers and bush rakes

{ Block }=1

{A source}= M.K. Asmolovsky Mechanization of forestry and landscape gardening : study guide / M.K. Asmolovsky; BSTU. - Mn., 2004. – 28 - 29 p.

###0009

Plant Shearing machines

{ Block }=1

{A source}= M.K. Asmolovsky Mechanization of forestry and landscape gardening : study guide / M.K. Asmolovsky; BSTU. - Mn., 2004. – 29 - 30 p.

###0010

The construction of stone harvesting machines UKP-0,6, USK-0,7A, KUM-1,2

{Block}=1

{A source}= M.K. Asmolovsky Mechanization of forestry and landscape gardening : study guide / M.K. Asmolovsky; BSTU. - Mn., 2004. – 30 - 32 p.

###0011

Device, principle of operation loading and transport equipment MPR-1221

{Block}=1

{A source}= M.K. Asmolovsky Mechanization of forestry and landscape gardening : study guide / M.K. Asmolovsky; BSTU. - Mn., 2004. – 33p.

###0012

What safety measures and stability features are required for operating machines near plants and structures?

{Block}=1

{A source}= M.K. Asmolovsky Mechanization of forestry and landscape gardening : study guide / M.K. Asmolovsky; BSTU. - Mn., 2004. – 34 – 40 p.

###0013

Winter and summer cleaning of garden paths and squares

{Block}=1

{A source}= M.K. Asmolovsky Mechanization of forestry and landscape gardening : study guide / M.K. Asmolovsky; BSTU. - Mn., 2004. – 42 – 50 p.

###0014

Aspects of machines for summer cleaning of garden paths and areas

{Block}=1

{A source}= M.K. Asmolovsky Mechanization of forestry and landscape gardening : study guide / M.K. Asmolovsky; BSTU. - Mn., 2004. – 50 – 55p.

###0015

The principle of operation and the device of the K-1 root harrow

{Block}=1

{A source}= M.K. Asmolovsky Mechanization of forestry and landscape gardening : study guide / M.K. Asmolovsky; BSTU. - Mn., 2004. – 55 – 60p.

###0016

Technological properties of the soil and their influence on mechanical processing

{Block}=1

{A source}= Khalansky, V.M. Agricultural machines: textbook / V.M. Khalansky, I.V. Gorbachev. - M.: Kolos. -2003. –24 p.

###0017

Methods, technological operations and techniques of the tillage system

{Block}=1

{A source}= Khalansky, V.M. Agricultural machines: textbook / V.M. Khalansky, I.V. Gorbachev. - M.: Kolos. -2003. –31 p.

###0018

Plow structure, work process, classification and agrotechnical requirements

{Block}=1

{A source}= Khalansky, V.M. Agricultural machines: textbook / V.M. Khalansky, I.V. Gorbachev. - M.: Kolos. -2003.–33-40 p.

###0019

Machines for surface tillage. Types, Purpose, General device, Workflow

{Block}=1

{A source}= Khalansky, V.M. Agricultural machines: textbook / V.M. Khalansky, I.V. Gorbachev. - M.: Kolos. -2003. – 624 p.

###0020

The main directions of improvement of tillage machines, agrotechnical requirements, quality control methods

{Block}=1

{Source}= Klenin, N.I. Agricultural machines: study guide / N.I.Klenin, S.N.Kiselyov, A.G.Levshin. M.: Kolos, 2008– 816 p.

###0021

Types of fertilizers. Technological properties of fertilizers, their influence on the working process of the machine

{Block}=1

{Source}= Klenin, N.I. Agricultural machines: study guide / N.I.Klenin, S.N.Kiselyov, A.G.Levshin. M.: Kolos, 2008– 816 p.

###0022

Methods of fertilization. Classification of machines and agrotechnical requirements for them

{Block}=1

{Source}=Khalansky, V.M. Agricultural machines: textbook / V.M. Khalansky, I.V. Gorbachev. - M.: Kolos. -2003. – 624 p

###0023

Technology and machines for applying solid mineral fertilizers. Factors affecting the quality of machines

{Block}=1

{Source}= Spitsyna. I.A. Agricultural machinery and technologies: textbook / Ed. - M.: Kolos, 2006 - 646 p.

###0024

Technology and machines for the transportation and application of liquid mineral fertilizers. Methods for assessing the quality of machines

{Block}=1

{Source}= Spitsyna. I.A. Agricultural machinery and technologies: textbook / Ed. - M.: Kolos, 2006 - 646 p.

###0025

Complex of machines for applying fertilizers by direct-flow reloading and transshipment methods The main direction is the improvement of machines for applying fertilizers

{Block}=1

{Source}= Klenin, N.I. Agricultural and reclamation machines: textbook for universities / N.I. Klenin. - M.: Kolos, 2008. - 293 p.

###0026

Technology and machines for sowing. Types, purpose, technological process, factors affecting the quality of their work

{Block}=1

{Source}= Spitsyna. I.A. Agricultural machinery and technologies: textbook / Ed. - M.: Kolos, 2006 - 646 p.

###0027

Ensuring the necessary uniformity and stability of seed sowing, the depth of their embedding in the soil. Quality control methods

{Block}=1

{Source}= Spitsyna. I.A. Agricultural machinery and technologies: textbook / Ed. - M.: Kolos, 2006 - 646 p.

###0028

Technology and machines for planting crops. Methods of planting potatoes, agrotechnical requirements

{Block}=1

{Source}=Khalansky, V.M. Agricultural machines: textbook / V.M. Khalansky, I.V. Gorbachev. - M.: Kolos. -2003. – 624 p.

###0029

Technology and machines for sowing row crops. Types, general structure and technological process

{Block}=1

{Source}=Khalansky, V.M. Agricultural machines: textbook / V.M. Khalansky, I.V. Gorbachev. - M.: Kolos. -2003. – 624 p.

###0030

Methods of crop care and applied care systems

{Block}=1

{Source}=Khalansky, V.M. Agricultural machines: textbook / V.M. Khalansky, I.V. Gorbachev. - M.: Kolos. -2003. – 624 p.

###0031

Ways to protect crops from pests, diseases and weeds

{Block}=1

{Source}= Spitsyna. I.A. Agricultural machinery and technologies: textbook / Ed. - M.: Kolos, 2006 – 646 p.

###0032

Sprayer workflow. Agrotechnical requirements for them

{Block}=1

{Source}= Spitsyna. I.A. Agricultural machinery and technologies: textbook / Ed. - M.: Kolos, 2006 – 646 p.

###0033

Classification and system of plant protection machines

{Block}=1

{Source}= Spitsyna. I.A. Agricultural machinery and technologies: textbook / Ed. - M.: Kolos, 2006 – 646 p.

###0034

Methods of harvesting grasses and silage crops. Agrotechnical requirements

{Block}=1

{Source}= Spitsyna. I.A. Agricultural machinery and technologies: textbook / Ed. - M.: Kolos, 2006 – 646 p.

###0035

Complexes of forage harvesting machines: loose hay, pressed hay and haylage

{Block}=1

{Source}= Spitsyna. I.A. Agricultural machinery and technologies: textbook / Ed. - M.: Kolos, 2006 – 646 p.

###0036

Methods of harvesting grain crops. Factors affecting the technological process and the quality of work

{Block}=1

{Source}= Tarasenko A.P. Rotary combine harvesters: a textbook. / A. P. Tarasenko.- St. Petersburg: Publishing House- "Lan", 2013. - 192 p.

###0037

The main directions of improving methods and machines for harvesting grain crops

{Block}=1

{Source}= Tarasenko A.P. Rotary combine harvesters: a textbook. / A. P. Tarasenko.- St. Petersburg: Publishing House- "Lan", 2013. - 192 p.

###0038

Methods of harvesting potatoes. Potato harvesting machines and agrotechnical requirements for them

{Block}=1

{Source}= Spitsyna. I.A. Agricultural machinery and technologies: textbook / Ed. - M.: Kolos, 2006 – 646 p.

###0039

Methods of harvesting row crops. Machines for harvesting row crops. Agrotechnical requirements for them

{Block}=1

{Source}= Spitsyna. I.A. Agricultural machinery and technologies: textbook / Ed. - M.: Kolos, 2006 – 646 p.

###0040

Classification of grain cleaning machines. Agrotechnical requirements for them

{Block}=1

{Source}= Spitsyna. I.A. Agricultural machinery and technologies: textbook / Ed. - M.: Kolos, 2006 – 646 p.

###0041

Grate-free grain cleaning machines. Types and schemes of their work

{Block}=1

{Source}= Spitsyna. I.A. Agricultural machinery and technologies: textbook / Ed. - M.: Kolos, 2006 – 646 p.

###0042

Physico-mechanical properties of the components of the grain heap and the use of their differences for cleaning, sorting and calibration

{Block}=1

{Source}= Spitsyna. I.A. Agricultural machinery and technologies: textbook / Ed. - M.: Kolos, 2006 – 646 p.

###0043

Drying of grain. Agrotechnical requirements for drying grain and seeds. Classification of grain dryers

{Block}=1

{Source}= Spitsyna. I.A. Agricultural machinery and technologies: textbook / Ed. - M.: Kolos, 2006 – 646 p.

###0044

Machines for the cultivation of sugar beet. Agrotechnical requirements for row cultivators

{Block}=1

{Source}= Spitsyna. I.A. Agricultural machinery and technologies: textbook / Ed. - M.: Kolos, 2006 – 646 p.

###0045

Grain cleaning complexes. Technological process of grain cleaning

{Block}=1

{Source}= Spitsyna. I.A. Agricultural machinery and technologies: textbook / Ed. - M.: Kolos, 2006 – 646 p.

###0046

Machines for tillage in gardens and their distinctive features from the field

{Block}=1

{Source}=Khalansky, V.M. Agricultural machines: textbook / V.M. Khalansky, I.V. Gorbachev. - M.: Kolos. -2003. – 624 p.

###0047

Distinctive features of steam and row cultivators and agrotechnical requirements for them

{Block}=1

{Source}=Khalansky, V.M. Agricultural machines: textbook / V.M. Khalansky, I.V. Gorbachev. - M.: Kolos. -2003. – 624 p.

###0048

Sunflower cultivation technology. The system of machines used in the cultivation of sunflower

{Block}=1

{Source}=Khalansky, V.M. Agricultural machines: textbook / V.M. Khalansky, I.V. Gorbachev. - M.: Kolos. -2003. – 624 p.

###0049

Technology of cultivation and harvesting of corn for silage. The system of machines used in the cultivation and harvesting of corn for silage

{Block}=1

{Source}=Khalansky, V.M. Agricultural machines: textbook / V.M. Khalansky, I.V. Gorbachev. - M.: Kolos. -2003. – 624 p.

###0050

Machines and equipment for clearing cuttings

{Block}=1

{Source}= New technologies and technical means for mechanization of work in horticulture. - M.: FSBI "Rosinformagrotech", 2012. - 164 p.

**Testing of agricultural and forestry equipment**

**Questions**

### 0001

Types of tests based on the main characteristics

{block}=1

{A source}= Votsky Z.I. Testing of agricultural machinery

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### 0002

Types of tests for the intended purpose

{block}=1

{A source}= Votsky Z.I. Testing of agricultural machinery

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### 0003

Types of tests by level of performance

{block}=1

{A source}= Votsky Z.I. Testing of agricultural machinery

Page 17-18

### 0004

Types of tests by product development stages

{block}=1

{A source}= Votsky Z.I. Testing of agricultural machinery

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### 0005

Types of tests of finished products

{block}=1

{A source}= Votsky Z.I. Testing of agricultural machinery

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### 0006

Types of tests by conditions and location

{block}=1

{A source}= Votsky Z.I. Testing of agricultural machinery

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### 0007

Types of tests by duration

{block}=1

{A source}= Votsky Z.I. Testing of agricultural machinery

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### 0008

Types of tests by type of exposure

{block}=1

{A source}= Votsky Z.I. Testing of agricultural machinery

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### 0009

Types of tests based on the results of exposure

{block}=1

{A source}= Votsky Z.I. Testing of agricultural machinery

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### 0010

Types of tests according to the determined characteristics of the object

{block}=1

{A source}= Votsky Z.I. Testing of agricultural machinery

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### 0011

Types of tests and conditions of their conduct

{block}=1

{A source}=Polivaev O. I. Testing of agricultural machinery and power plants.

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### 0012

Preliminary – testing of prototypes

{block}=1

{A source}=Polivaev O. I. Testing of agricultural machinery and power plants.

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### 0013

Acceptance – testing of prototypes

{block}=1

{A source}=Polivaev O. I. Testing of agricultural machinery and power plants.

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### 0014

Periodic – tests of manufactured products

{block}=1

{A source}=Polivaev O. I. Testing of agricultural machinery and power plants.

Page 22

### 0015

Qualification – tests of the installation series or the first industrial batch

{block}=1

{A source}=Polivaev O. I. Testing of agricultural machinery and power plants.

Page 22

### 0016

Standard – tests of manufactured production

{block}=1

{A source}=Polivaev O. I. Testing of agricultural machinery and power plants.

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### 0017

Certification – tests of production

{block}=1

{A source}=Polivaev O. I. Testing of agricultural machinery and power plants.

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### 0018

Tests of foreign equipment in order to determine the fit into the technology {block}=1

{A source}=Polivaev O. I. Testing of agricultural machinery and power plants.

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### 0019

Tests of petroleum products in order to determine the quality of fuel and lubricants

{block}=1

{A source}=Polivaev O. I. Testing of agricultural machinery and power plants.

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### 0020

Factory (departmental) tests

{block}=1

{A source}=Polivaev O. I. Testing of agricultural machinery and power plants.

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### 0021

Types of control according to the main features:

{block}=1

{A source}= Votsky Z.I. Testing of agricultural machinery.

Page 28-29

### 0022

Technical expertise

{block}=1

{A source}= Votsky Z.I. Testing of agricultural machinery.

Page 30-31

### 0023

Primary technical expertise

{block}=1

{A source}= Votsky Z.I. Testing of agricultural machinery.

Page 31-42

### 0024

Types of tests based on the main characteristics

{block}=1

{A source}= Votsky Z.I. Testing of agricultural machinery.

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### 0025

Types of tests for the intended purpose

{block}=1

{A source}= Votsky Z.I. Testing of agricultural machinery.

Page 44-47

### 0026

Types of tests by level of performance

{block}=1

{A source}= Votsky Z.I. Testing of agricultural machinery.

Page 47-57

### 0027

Current technical expertise

{block}=1

{A source}= Votsky Z.I. Testing of agricultural machinery.

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### 0028

Final technical examination

{block}=1

{A source}= Votsky Z.I. Testing of agricultural machinery.

Page 57-59

### 0029

Evaluation of functional indicators

{block}=1

{A source}= Votsky Z.I. Testing of agricultural machinery.

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### 0030

Determination of indicators of machine testing conditions

{block}=1

{A source}= Votsky Z.I. Testing of agricultural machinery.

Page 61-80

### 0031

Energy assessment

{block}=1

{A source}=Gribanovsky A.P. Testing of agricultural machinery.

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### 0032

Assessment of safety and ergonomics of the design

{block}=1

{A source}=Gribanovsky A.P. Testing of agricultural machinery.

Page 22-23

### 0033

How is operability determined during inspection and testing

{block}=1

{A source}=Gribanovsky A.P. Testing of agricultural machinery.

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### 0034

Operational and technological assessment

{block}=1

{A source}=Gribanovsky A.P. Testing of agricultural machinery.

Page 25-26

### 0035

Reliability assessment

{block}=1

{A source}=Gribanovsky A.P. Testing of agricultural machinery.

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### 0036

Economic assessment

{block}=1

{A source}=Gribanovsky A.P. Testing of agricultural machinery.

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### 0037

Rules for acceptance of machines for testing

{block}=1

{A source}=Gribanovsky A.P. Testing of agricultural machinery.

Page 30-32

### 0038

For the weight characteristics of the machine , determine

{block}=1

{A source}=Gribanovsky A.P. Testing of agricultural machinery.

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### 0039

Methodology for determining indicators during technical expertise

{block}=1

{A source}=Gribanovsky A.P. Testing of agricultural machinery.

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### 0040

When analyzing the causes of failure , take into account

{block}=1

{A source}=Gribanovsky A.P. Testing of agricultural machinery.

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### 0041

Indicators of machine testing conditions

{block}=1

{A source}= Kukhmazov K.Z. Methods of research and testing of agricultural machinery and equipment.

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### 0042

The system of indicators of quality and efficiency of agricultural machinery

{block}=1

{A source}= Kukhmazov K.Z. Methods of research and testing of agricultural machinery and equipment.

Page 21-24

### 0043

The task, the program and the devices used in the energy assessment of agricultural aggregates

{block}=1

{A source}= Kukhmazov K.Z. Methods of research and testing of agricultural machinery and equipment.

Page 25-28

### 0044

Energy assessment indicators and methods of their determination

{block}=1

{A source}= Kukhmazov K.Z. Methods of research and testing of agricultural machinery and equipment.

Page 29-32

### 0045

Agrotechnical assessment of the use of agricultural machinery

{block}=1

{A source}= Kukhmazov K.Z. Methods of research and testing of agricultural machinery and equipment.

Page 33-37

### 0046

Methods for determining the quality indicators of the technological process by seeding machines

{block}=1

{A source}=Gribanovsky A.P. Testing of agricultural machinery.

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### 0047

Installation of the sowing machine in accordance with the seeding rate

{block}=1

{A source}=Gribanovsky A.P. Testing of agricultural machinery.

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### 0048

Methods for determining the unevenness of sowing between seeding machines

{block}=1

{A source}=Gribanovsky A.P. Testing of agricultural machinery.

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### 0049

Methods for determining seed damage

{block}=1

{A source}=Gribanovsky A.P. Testing of agricultural machinery.

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### 0050

Methods for determining the seeding capacity of the seeding machine

{block}=1

{A source}=Gribanovsky A.P. Testing of agricultural machinery.

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**Modern technologies and technical means in animal husbandry**

**QUESTIONS**

###0001

Theory of cutting feed with a blade.

{Block}=3

{A source}= Kitun.A. V., Perednya. V. Ch., Romanyuk. N. N. et al. Technical support and calculation bases for the means of mechanization of technological processes on a livestock farm: textbook-Almaty, 2017.

###0002

Energy consumption for grain destruction

{Block}=3

{A source}= Kitun. A. V., Perednya. V. Ch., Romanyuk. N. N. et al. Technical support and calculation bases for the means of mechanization of technological processes on a livestock farm: textbook-Almaty, 2017.

###0003

Theoretical foundations of feed grinding (methods, degree and laws of grinding).

{Block}=3

{A source}= Kirsanov, V. V., Murusidze D. N. et al. Mechanization and technology. Textbook-Moscow: Infra-M., -2013.

###0004

Precision technologies in agriculture.

{Block}=3

{A source}= A.I. Zavrazhnov, S. M. Vedishchev, M. K. Braliev et al. Technical support of animal husbandry Textbook. Lan, St. Petersburg ⋅Moskava ⋅Krasnodar, 2021.

###0005

The technology of sharpening the cutting pair of the shearing machine and the accepted sharpening machines.

{Block}=3

{A source}= Kirsanov, V. V., Murusidze D. N. et al. Mechanization and technology. Textbook-Moscow: Infra-M., -2013.

###0006

Calculation of separators-drain separators. (Speed of floating fat balls and performance)

{Block}=3

{A source}= A.I. Zavrazhnov, S. M. Vedishchev, M. K. Braliev et al. Technical means in dairy cattle breeding. Training manual. Uralsk, 2017

###0007

Equation and graph of low cutting of a shearing machine

{Block}=3

{A source}= Kirsanov, V. V., Murusidze D. N. et al. Mechanization and technology. Textbook-Moscow: Infra-M., -2013.

###0008

Global trends in the development of equipment for dairy cattle breeding

{Block}=3

{A source}= A.I. Zavrazhnov, S. M. Vedishchev, M. K. Braliev et al. Technical support of animal husbandry Textbook. Lan, St. Petersburg ⋅Moskava ⋅Krasnodar, 2021.

###0009

Calculation of centrifugal pumps.

{Block}=3

{A source}= Kitun.A. V., Perednya. V. Ch., Romanyuk. N. N. et al. Technical support and calculation bases for the means of mechanization of technological processes on a livestock farm: textbook-Almaty, 2017.

###0010

Directions of technical modernization of poultry farming

{Block}=3

{A source}= A. I. Zavrazhnov Modern problems of science and production in agroengineering Textbook. Lan, St. Petersburg ⋅Moskava ⋅Krasnodar, 2013.

###0011

Egg incubation technology

{Block}=3

{A source}= Kirsanov, V. V., Murusidze D. N. et al. Mechanization and technology. Textbook-Moscow: Infra-M., -2013.

###0012

Vermicompost (vermicompost)preparation technology

{Block}=3

{A source}= Kirsanov, V. V., Murusidze D. N. et al. Mechanization and technology. Textbook-Moscow: Infra-M., -2013.

###0013

Technology and equipment for milk purification.

{Block}=3

{A source}= A.I. Zavrazhnov, S. M. Vedishchev, M. K. Braliev et al. Technical means in dairy cattle breeding. Textbook-Uralsk, 2017.

###0014

Optimization of machines and equipment by combining operations

{Block}=3

{A source}= Kitun.A. V., Perednya. V. Ch., Romanyuk. N. N. et al. Technical support and calculation bases for the means of mechanization of technological processes on a livestock farm: textbook-Almaty, 2017.

###0015

Analysis of methods and means of manure transportation.

{Block}=3

{A source}= A.I. Zavrazhnov, S. M. Vedishchev, M. K. Braliev et al. Technical means in dairy cattle breeding. Textbook-Uralsk, 2017

###0016

Automated animal feeding systems, i.e. feed dispenser operations using digital technologies

{Block}=3

{A source}= A.I. Zavrazhnov, S. M. Vedishchev, M. K. Braliev et al. Technical means in dairy cattle breeding. Textbook-Uralsk, 2017.

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Rotbotic plants for manure harvesting with the introduction of information technologies in animal husbandry

{Block}=3

{A source}= A.I. Zavrazhnov, S. M. Vedishchev, M. K. Braliev et al. Technical means in dairy cattle breeding. Textbook-Uralsk, 2017.

###0018

New milking machines forfarmsteads and small farms

{Block}=3

{A source}= A. I. Zavrazhnov, S. M. Vedishchev, M. K. Braliev et al. Technical support of animal husbandry. Textbook. Lan St. Petersburg-Moscow: Krasnodar, 2018.

###0019

Processing of manure and manure by the method of bio-fermentation in chamber-type installations.

{Block}=3

{A source}= A.I. Zavrazhnov, S. M. Vedishchev, M. K. Braliev et al. Technical means in dairy cattle breeding. Textbook-Uralsk, 2017.

###0020

Sheep shearing technology

{Block}=3

{A source}= Melnikov S.V. Technological equipment of livestock farms and complexes Textbook - L.:Kolos–1985.

###0021

Actual production line performance

{Block}=3

{A source}= Kitun.A. V., Perednya. V. Ch., Romanyuk. N. N. et al. Technical support and calculation bases for the means of mechanization of technological processes on a livestock farm: textbook-Almaty, 2017.

###0022

Anaerobic manure treatment technology with electricity and heat generation.

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{A source}= A.I. Zavrazhnov, S. M. Vedishchev, M. K. Braliev et al. Technical means in dairy cattle breeding. Textbook-Uralsk, 2017.

###0023

Milking robots and vending machines.

{Block}=3

{A source}= A.I. Zavrazhnov, S. M. Vedishchev, M. K. Braliev et al. Technical means in dairy cattle breeding. Textbook-Uralsk, 2017.

###0024

Methodology for calculating the water supply and drinking lines for animals

{Block}=3

{A source}= Kirsanov, V. V., Murusidze D. N., Gugunov A. I. et al. Course and diploma design on animal husbandry mechanization. Textbook-M.: KolosS., -2006.

###0025

Microclimate calculation method

{Block}=3

{{A source}= Kirsanov, V. V., Murusidze D. N., Gugunov A. I. et al. Course and diploma design on animal husbandry mechanization. Textbook-M.: KolosS., -2006.

###0026

Method of calculating the feed preparation and distribution line

{Block}=3

{A source}= Kirsanov, V. V., Murusidze D. N., Gugunov A. I. et al. Course and diploma design on animal husbandry mechanization. Textbook-M.: Kolos S., -2006.

###0027

Method of calculating the egg collection and sorting line

{Block}=3

{A source}= Kirsanov, V. V., Murusidze D. N., Gugunov A. I. et al. Course and diploma design on animal husbandry mechanization. Textbook-M.: Kolos S., -2006.

###0028

Calculation method for manure removal, transportation and storage lines

{Block}=3

{A source}= Kirsanov, V. V., Murusidze D. N., Gugunov A. I. et al. Course and diploma design on animal husbandry mechanization. Textbook-M.: Kolos S., -2006.

###0029

Methodology for calculating cow milking and primary milk processing.

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{A source}= Kirsanov, V. V., Murusidze D. N., Gugunov A. I. et al. Course and diploma design on animal husbandry mechanization. Textbook-M.: KolosS., -2006.

###0030

Organization of animal movement and planning of livestock premises with milking operations.

{Block}=3

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Methods of modeling and designing production processes

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ЭССЕ

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