

Livestock Knowledge Bowl Study Questions for Juniors

True or False - It is recommended that hair is not removed from a doe goat's udder. -GT 7

- a. False

True or False - When training your project animal, it is best to work with your calf infrequently for long periods of time each training session. -BF 3

- b. False

True or False - Flushing a pig should result in an increased ovulation rate and litter size. -SW 8

- c. True

True or False - Pneumonia only affects young sheep. -SH 5

- d. False

It is recommended to trim a sheep's feet at least how long before the show if needed? -SH 8

- 3 days
- 1 week
- 2 weeks**
- 3 weeks

Genes of goats are responsible for all of the following except _____. -GT 4

- Physical Appearance
- Performance
- Behavior
- Fat Cover**

On average, how long after conception will a cow calve? -BF 6

- 5 Months
- 283 Days**
- 11 Months
- 1 Year

What is the ideal condition score of a sw? -SW 8

- 2
- 3**
- 4
- 5

In cattle, _____ is an undesirable structural condition where the knees are set too far out, causing toes to turn inward. -BF 2

- Pigeon Toed**
- Cow Hocked
- Calf Kneed
- Post Legged

_____ is an undesirable structural condition where a calf is “over at the knees” preventing full extension of the knee. When observed from the side, the legs appear slightly bent. This is usually seen in cattle that are too straight in the shoulder. -BF 2

- Splay Footed
- **Buck Kneed**
- Calf Kneed
- Sickle Hocked

Fresh pork should be what color? -SW 4

- **Reddish Pink**
- Light Pink
- Dark Purple
- All of the Above

Which muscle firmness category is ideal in hogs? -SW 4

- PSE Pale, Soft, Exudative
- **RFN Reddish Pink, Firm, Non-Exudative**
- DFD Dark Purplish red, firm, dry

What are the building blocks of a sheep’s body, they are made of amino acids that build muscle, blood, internal organs, skin, and parts of the skeletal and nervous system? -SH 4

- **Protein**
- Carbohydrates and Fats
- Minerals
- Vitamins

Which is needed in small amounts and is used to build bones and teeth in sheep. -SH 4

- Protein
- Carbohydrates and Fats
- **Minerals**
- Vitamins

A goat kid should have his first feeding within _____ after birth. -GT 5

- **1 Hour**
- 3 Hours
- 5 Hours
- 7 Hours

About how old should a goat kid be when you start to offer it high quality grain starter? -GT 5

- 1 week
- **2 weeks**
- 3 weeks
- 1 month

_____ is the time between when an egg is fertilized to when the calf is born. -BF 6

- **Gestation**
- Contraception
- Superovulation
- Ovulation

Atrophic Rhinitis is an inflammation of the mucous membranes that line what part of a pig? -SW 9

- Mouth
- Ears
- **Nose**
- Intestines

In sheep it is recommended to give all injections in what part of the body to avoid damage to high priced meat cuts? -SH 13

- Rump
- **Neck**
- Loin
- Topline

This question has a bonus attached. What is a castrated goat called? -GT 6

- Gelding
- Steer
- **Wether**
- Barrow

What organ in cattle produces the female sex cell called the egg? -BF 6

- a. Follicles
- b. Ovaries**
- c. Vagina
- d. Cervix

How often do goat hooves usually need to be trimmed? -GT 6

- 4 - 6 weeks
- **2 - 3 months**
- 4 - 5 months
- 6 - 7 months

What is it called when you are matting animals from two or more different cattle breeds? -BF 6

- Line Breeding
- Artificial Insemination
- **Crossbreeding**
- Embryo Transfer

What causes a pig to have anemia? -SW 9

- Lack of Protein
- **Lack of Iron**
- Lack of Calcium
- Lack of Zinc

This question has a bonus attached. What are the two P's of sheep training and care? -SH 13

- Patience and Planning
- Practice and Production
- **Patience and Practice**
- Production and Planning

In what season do outbreaks of transmissible gastroenteritis/TGE in pigs most often happen? -SW 9

- Spring
- Summer
- Fall
- **Winter**

Ewe and ram sheep normally reach puberty at what age? -SH 11

- 3 - 4 Months
- **5 - 8 Months**
- 10 - 12 Months
- 14 - 16 Months

What temperature is goat milk stored at in the bulk tank? -GT 7

- 30 degrees fahrenheit
- 32 degrees fahrenheit
- **40 degrees fahrenheit**
- 45 degrees fahrenheit

The rumen in a calf is mostly developed by what age? -BF 7

- 1 Month
- **3 Months**
- 6 Months
- 1 Year

This question has a bonus attached. Stomach worms generally have major reproducing populations in what age of pigs? -SW 9

- Suckling Pigs
- Old Pigs
- Feeder Pigs
- **All ages**

Lice, ticks, and mange are considered _____. -SH 5

- **External Parasites**
- Fungus

- Internal Parasites
- Stomach Worms

New pig additions to a herd have a _____ day isolation period. -SW 9

- 20
- **30**
- 40
- 50

Treating your sheep for internal parasites is done by giving _____. -SH 5

- Antibiotics
- **Dewormer**
- Extra Feed
- More Fresh Water

What is referred to as the length and depth of a meat goat? -GT 8

- **Volume/Capacity**
- Style and Balance
- Growth Potential
- Structural Correctness

This question has a bonus attached. _____ at calving is the most critical factor in determining reproductive performance. -BF 7

- Breed
- Age
- **Body Condition**
- Weight

The fore saddle, consisting of the shoulder, rack, and other retail cuts, is what percent of a meat goat carcass? -GT 8

- 41 percent
- 48 percent
- **52 percent**
- 59 percent

True or False - Barbed wire could be used as a top strand for a fence for cattle, but not as the primary fencing system. -BF 3

- True

True or False - Very large loin muscles in pigs have been found to be associated with poor muscle quality attributes such as very pale, soft, and watery meat. -SW 4

- True

True or False - A teaser ram placed with ewes ten to fourteen days prior to placing the intact ram with the ewes, will shorten the breeding season. -SH 3

- True

True or False - Goats are ruminant animals. -GT 5

- True

How much of a goat's body is composed of water? -GT 5

- 25 - 50 percent
- 35 - 55 percent
- **50 - 80 percent**
- 80 - 90 percent

What is the name of the first vertebrae closest to the head of cattle? -BF 2

- Sacral
- **Axis**
- Lumbar
- Atlas

Which is an expression of the proportion of carcass weight of a pig divided by the live weight?
-SW 4

- **Dressing Percentage**
- Finish
- Excess Fat
- Actual Weight

Yearling weight of sheep should be taken at what age? -SH 3

- 98 - 143 days
- 150 - 210 days
- **335 - 395 days**
- 395 - 425 days

When cattle are viewed from the front or rear and the knees are close together and the feet toe out away from each other, what is it called? -BF 2

- **Splay Footed**
- Pigeon Toed
- Cow Hocked
- Calf Kneed

When viewing cattle's rear legs from the side, and the hock has too much angle, or set, causing it to stand too far underneath itself, what is it called? -BF 2

- Splay Footed
- Pigeon Toed
- Post Legged
- **Sickle Hocked**

A feeder pig that is short and has thin muscling throughout, particularly in the lower parts of the ham toward the shanks is what USDA feeder pig grade? -SW 4

- No. 1
- No. 2
- No. 3
- **No. 4**

A feeder pig that is moderately long and has moderately thick muscling through the hams and shoulders is what USDA feeder pig grade? -SW 4

- No. 1
- **No. 2**
- No. 3
- No. 4

High priced cuts come from which part of a market lamb? -SH 2

- Top
- Hind Saddle
- Leg
- **All of the Above**

Which is NOT a place you evaluate finish on a sheep? -SH 2

- Over Backbone
- Flank
- Upper Rear Rib
- **Neck**

Which is not a ruminant? - GT 5

- **Pig**
- Goat
- Cattle
- Elk

Which is the true stomach in a goat. -GT 5

- Rumen
- Omasum
- Reticulum
- **Abomasum**

In beef cattle, frame score is based upon the height of an animal at the _____ at different ages.

-BF 2

- Poll
- Crest
- Tail Head
- **Hip**

What is the average loin muscle area in swine in square inches? -SW 4

- 2.25 - 3.75

- 4.00 - 5.50
- **5.75 - 6.50**
- 6.75 - 7.75

Which is needed in small amounts and all but three are produced in the sheep rumen? -SH 4

- Protein
- Carbohydrates and Fats
- Minerals
- **Vitamins**

This question has a bonus attached. What is the most important nutrient a goat needs to survive? -GT 5

- Vitamins
- **Water**
- Fats
- Food

Which knot is the standard knot used to tie beef cattle to a post or stall and is a good non slip knot, which can be un-tied under tension? -BF 3

- **Quick Release Knot**
- Bowline Knot
- Square Knot
- Half Hitch

In general a goat should reach market weight as early as ____ of age. -GT 5

- 4 - 5 months
- **6 - 7 months**
- 9 - 10 months
- 12 months

How long before weaning should all vaccinations and internal parasite control be done in cattle? -BF 3

- 1 week
- 2 weeks
- **1 month**
- 2 months

Which is not an industrial byproduct from hog hair? -SW 5

- Artist Brushes
- Insulation
- **Yarn**
- Upholstery

This question has a bonus attached. During the last six weeks, the lambs gain about how much of their birth weight? -SH 4

- $\frac{1}{4}$

- $\frac{1}{3}$
- $\frac{2}{3}$
- $\frac{3}{4}$

Which refers to the amount of feed provided to a pig in the quantity of nutrients needed? -SW 8

- Feed
- **Ration**
- Diet
- Meal

_____ is the closeness of the fibers per unit area of skin on a sheep. -SH 7

- Britch
- **Density**
- Kemp
- Scouring

Which is not a purpose in all goat project work? -GT 1

- **Make Money**
- Get Education
- Experience
- Development

The space that beef cattle develop around themselves that is a distinctive, comfortable space is called their _____. -BF 4

- **Flight Zone**
- Safety Area
- Prey Zone
- None of the Above

This question has a bonus attached. Which nutrient gives pork 11 percent of daily value, is also known as an electrolyte, plays a major role in water balance and helps maintain normal blood pressure? -SW 6

- Iron
- **Potassium**
- Vitamin B-12
- Riboflavin

_____ is abnormal, coarse, hairy fibers in some sheep's fleece. -SH 7

- Britch
- Density
- **Kemp**
- Scouring

Which nutrient group are compounds that assists the body in the assimilation and use of other nutrients? -SW 8

- Water
- Carbohydrates and Fats

- **Vitamins**
- Protein

_____ sheep wool disentangles and separates the wool fibers. -SH 7

- **Carding**
- Combing
- Scouring
- Spinning

Where is the point of balance on a goat? -GT 3

- Poll
- **Shoulder**
- Middle of the Back
- Rump

This question has a bonus attached. Which beef cattle disease is a contagious virus that causes diarrhea, abortions, weak calves, high temperature, discharge from nose, and problems in the intestines? -BF 5

- Bloat
- **BVD**
- Foot Rot
- Calf Scours

What female goat reproductive organ is the site of growth and development of kids? -GT 4

- a. Ovaries
- b. Oviduct
- c. Uterus**
- d. Cervix

True or False - Having a square pen for hogs is better than a rectangle pen. -SW 11

- False

True or False - Wool is non flammable, strong, and easily dyed. -SH 7

- True

True or False - A goat's secondary hair is often curly and most valuable. -GT 9

- True

True or False - All male cattle intended for meat production should be castrated. -BF 11

- True

Which disease that young calves are especially vulnerable to, is caused by a bacterial infection or a virus, symptoms are rapid and difficult breathing, coughing, runny nose, fever, etc. -BF 11

- Scours
- Pneumonia
- Navel Ill

- **Acidosis**

At least how many well spaced teats should be on each side of a female pig? -SW 15

- 4
- 5
- **6**
- 7

Wool grading is based on the ____ and _____ of the fiber. -SH 7

- **Diameter and Fineness**
- Diameter and Strength
- Strength and Length
- All of the Above

Which is not an injectable route of administering a drug to goats? -GT 13

- Subcutaneous
- Intramuscular
- Intravenous
- **Drenching Tube**

About how long can domesticated cattle live without food? -BF 7

- 30 Days
- 40 Days
- 50 Days
- **60 Days**

About how long can domesticated cattle live without water? -BF 7

- 1 Day
- 3 Days
- **7 Days**
- 15 Days

Which mineral in pigs is used for bone formation? -SW 8

- **Calcium**
- Phosphorus
- Salt
- Nitrogen

Which mineral in pigs is involved in bone building and assists in energy utilization? -SW 8

- Calcium
- **Phosphorus**
- Salt
- Nitrogen

Which reproductive organ of a male sheep is the sex gland where sperm originate? -SH 11

- Accessory Sex Glands
- Epididymis
- Vas Deferens
- **Testes**

Which reproductive organ of a male sheep is an external pouch of skin that encloses the testicles and aids in regulating their temperature? -SH 11

- Epididymis
- **Scrotum**
- Vas Deferens
- Testes

What is the most important hormone in the milking process of goats? -GT 7

- **Oxytocin**
- Estrogen
- Progesterone
- FSH

Full milk let down in goats lasts only _____ so it's important to milk doe goats quickly. -GT 7

- 3 - 4 minutes
- **5 - 6 minutes**
- 7 - 10 minutes
- 10 - 13 minutes

How often should cattle be weighed for a growth record? -BF 11

- **Once a month**
- Once every 2 months
- Once every 6 months
- When Sold

What is the ultimate control center for female pig reproduction? -SW 15

- Ovaries
- **Brain**
- FSH
- Prolactin

The word "balk" refers to an animal that is being _____. -SH 9

- Bossy
- Cuddly
- Social
- **Stubborn**

This question has a bonus attached. To be prepared for higher education in animal science which high school courses should be taken? -GT 14

- English

- Math
- Science
- **All of the Above**

A dairy beef cattle's feet should be trimmed how long before show day? -BF 11

- 5 days
- 1 week
- 2 weeks
- **1 month**

For goats, the first shearing of the year takes place in _____. -GT 9

- April
- August
- June
- **March**

Which is likely to be the number one environmental issue for both beef cattle livestock producers and the general public? -BF 13

- **Odor**
- Appearance of the Operation
- Maintenance
- Record Keeping

Negative EPD's are desirable for all the following characteristics in pigs. -SW 17

- Back Fat
- **Average Daily Gain**
- Days to Market
- Feed/Gain Ration

This question has a bonus attached. The age of the animal is the _____. -SH 6

- Conformation
- **Maturity**
- Yield
- Fatness

Which trait of a pig has the highest heritability? -SW 17

- a. **Carcass Length**
- b. Litter Size Born Alive
- c. 21 -Day Litter Weight
- d. Feed Conversion

The firmness of lean and fat is measured at the _____ and is an indicator of carcass fatness. -SH 6

- **Flank**
- Leg
- Loin
- Rib

In the west, goats used for cashmere are sheared _____ a year. - GT 9

- Once**
- Twice
- Four Times
- Fiber goats are never sheared

Reporters, management personnel, and commission agents are in what group of animal science careers? -BF 15

- Production Management
- Agribusiness**
- Government Agencies
- Research and Teaching

This question has a bonus attached. What is the lifespan of sperm cells in the oviduct of swine? -SW 18

- 5 - 22 hours
- 24 - 72 hours**
- 4 - 5 Days
- 6 - 7 days

The goal for lamb production is to have _____ pounds of live weight in 120 days or less. -SH 6

- 40
- 55
- 90**
- 120

How many sows can one mature boar breed over a four week period and still maintain a high conception rate? -SW 18

- 3 - 5
- 7 - 10
- 10 - 12**
- 15 - 17

Lamb production should have a goal of _____ quality grade or better. -SH 6

- Choice**
- Good
- Prime
- Utility

You can have teams of _____ goats pulling a cart. -GT 9

- 2 or 4**
- 4 or 6
- 8 or 12
- They don't work well in teams

This question has a bonus attached. Which is not an "end meat" wholesale cut of beef? -BF 8

- Chuck

- Brisket**
- Round
- A and B

The best selection for a pack goat is a _____. -GT 9

- Buck
 - Doe
 - Nanny
 - Wether**
-

True or False - The callipyge gene is undesirable because tough meat is not wanted by the consumer. -SH 6

- True

True or False - Goat bucks cannot be housed together. -GT 10

- False

True or False - Water is found in every cell in the body of a cow. -BF 7

- True

True or False - Crossbred swine offspring grow faster to market weight as a result of heterosis. -SW 15

- True

Which ear of a pig is used for the litter mark for identification? -SW 10

- Right**
- Left
- Both
- Neither

Pregnancy Toxemia is commonly known as _____. -SH 5

- Anemia
- Lambing Sickness**
- Mastitis
- Bloat

The _____ hair of a goat is often curly and is most valuable. -GT 9

- Primary Hair
- Secondary Hair**
- Top Hair
- Long Hair

Yield grades in cattle are expressed in numerical scores in what range? -BF 8

- 0 - 6
- 1 - 5**
- 1 - 7

- 1 - 10

Which beef cattle disease is caused by a buildup of gas inside the rumen? -BF 5

- **Bloat**
- BVD
- Foot Rot
- Calf Scours

Which beef cattle disease causes swelling and lameness; the skin between the toes and around the foot turns red and will have a foul odor? -BF 5

- Hardware Disease
- Calf Scours
- **Foot Rot**
- BVD

Which part of a pig's digestive system serves as a reservoir for short term food storage and digestive enzymes break down the feed components so they can be absorbed into the bloodstream? -SW 7

- Esophagus
- Mouth
- **Stomach**
- Small Intestines

Which part of a pig's digestive system takes some undigested feed, where it is broken down for absorption into the body, and it removes available nutrients? -SW 7

- Esophagus
- Mouth
- Stomach
- **Small Intestines**

Which sheep breed was developed in the United States from a Lincoln ram and Rambouillet ewe cross. It is large, white faced, polled, and has wool on the legs. -SH 10

- **Columbia**
- Finn Sheep
- Hampshire
- Suffolk

Which sheep breed is polled, with a learn, black head and legs, is known for its meatiness, high carcass quality, and rapidly growing lambs. -SH 10

- Polypay
- Rambouillet
- Merino
- **Suffolk**

What type of ears do LaMancha goats have? -GT 2

- Gopher Ears**
- Floppy Ears
- Erect Ears
- Large Ears

Nubian goats are characterized for what? -GT 2

- Small Feet
- Long Ears**
- Small Size
- Color

Which is a “middle meat” wholesale cut from beef cattle? -BF 8

- Loin
- Chuck
- Rib
- A and C**

One self feeder should be for how many pigs? -SW 11

- 4**
- 6
- 8
- 10

Stiff lamb disease is another name for the disease _____. -SH 5

- Coccidiosis
- Foot Rot
- White Muscle**
- Mastitis

This question has a bonus attached. Which color of goat is least preferred for cashmere fleece?
-GT 9

- White
- Mixed**
- Brown
- Gray

Which beef cattle market has direct delivery of livestock to the packing plant, and the price is determined between the buyer and seller? -BF 10

- Auction Markets
- **Direct to Packer Sales**
- Carcass Weight and Grade Sales
- Commodity Markets

What is the first step in training a goat to pull a cart? -GT 9

- **Getting to know the goat**
- Getting the goat used to the halter
- Teaching the goat to lead
- Getting the goat used to the harness

Preconditioning calves should be done how long before cattle are transported? -BF 10

- Right Before
- **3 - 8 weeks**
- 8 - 10 weeks
- 2 - 3 months

One waterer should be for how many pigs? -SW 11

- 10
- 13
- **15**
- 18

This question has a bonus attached. The american style lamb roasts comes from the _____.
-SH 7

- Breast
- **Leg**
- Loin
- Other Cuts

What is the preferred temperature for pigs at a nursery? -SW 11

- 50 - 75 degrees fahrenheit
- 60 - 75 degrees fahrenheit
- **65 - 80 degrees fahrenheit**
- 80 - 90 degrees fahrenheit

When an individual fleece is evaluated and separated using grading criteria it is called _____.
-SH 7

- Batching
- Classifying
- Judging
- **Sorting**

Which type of goat is least wanted for a pet pygmy goat? -GT 9

- Doe
- Wether
- **Buck**
- Kid

Where should subcutaneous (SQ) injections be administered in beef cattle? -BF 10

- **Ahead of point of shoulder**
- Rump
- Anywhere

- Topline

This question has a bonus attached. What is an illness that can be transmitted between humans and pigs? -SW 14

- **Zoonotic**
- Parasitic
- Exotic
- Recessive

The wool most commonly used for making fabric is _____ wool. -SH 7

- **Combing**
- Crimped
- Dress
- Feather

When choosing a gilt, emphasis should be placed on all these EXCEPT _____. -SW 15

- Growth Rate
- **Color**
- Disposition
- Leanness

The American or Blood System divides all wool from _____. -SH 7

- Coarsest to Finest
- **Finest to coarsest**
- Longest to Shortest
- Shortest to Longest

Goat kids should be grouped by what characteristic? -GT 10

- **Age**
- Size
- Breed
- Parents

This question has a bonus attached. What is referred to as the cattle's apparent health, alertness, and estimated ability to gain weight rapidly and efficiently? -BF 11

- **Thriftiness**
- Conformation
- Disposition
- Frame Size

_____ include items such as feed, vet expenses, breeding fees, bedding, and ear tags. -GT

12

- Returns
 - Receipts
 - **Variable Costs**
 - Fixed Costs
-