



**2016 National FFA Livestock Evaluation
Career Development Event – Exam Key**

1. A key tool to help develop rations is called the _____.
 - a. Punnet Square
 - b. Parson Square
 - c. Pearson Square
 - d. Ration Square

2. The _____ goat originated in the Eastern Cape Province of South Africa and is noted for being superior to Spanish goats for meat production.
 - a. Bore
 - b. Boar
 - c. Baer
 - d. Boer

3. Vitamins D and E are examples of _____.
 - a. Water Soluble Vitamins
 - b. Fat Soluble Vitamins
 - c. Trace Vitamins
 - d. Macro Vitamins

4. In order from least to most complex, structures in animals include:
 - a. Systems-Organs-Tissues-Cells
 - b. Cells-Tissues-Organs-Systems
 - c. Tissues-Cells-Systems-Organs
 - d. There is no difference in these terms or structures.

5. Modern *Bos Taurus* are descended from the Celtic Shorthorn and the _____.
 - a. Auroch
 - b. *Bos Indicus*
 - c. Galloway
 - d. Markours

6. A _____ ration is one that has all necessary nutrients in the correct proportions and amounts.
- Nutritious
 - Balanced
 - Palatable
 - Perfect
7. All vertebrate farm animals have an _____.
- Hydraulic skeleton
 - Endoskeleton
 - Exoskeleton
 - Epithelial skeleton
8. The primary energy nutrient in animal rations is/are _____.
- Protein
 - Minerals
 - Amines
 - Carbohydrates
9. Thought to be linked to a recessive gene, _____ is most prevalent in heavily muscled pigs and can be reduced through the selection of breeding stock.
- PSS
 - SPS
 - SSP
 - PPsV
10. Skeletal muscles typically attach to bones by _____.
- Tendons
 - Ligaments
 - Osseins
 - Smooth Muscles
11. Maintenance rations provide energy for the functioning of the heart, breathing, and other vital processes. These activities are referred to as _____.
- Baseline Metabolism
 - Diaphoretic Metabolism
 - Critical Metabolism
 - Basal Metabolism

12. In ruminants the true (gastric) stomach is called the _____.
a. Abomasum
b. Rumen
c. Omasum
d. Reticulum
13. _____ is a synthetic source of Nitrogen that can help meet the amino acid requirements of ruminants.
a. Alanine
b. Glycine
c. Uric Acid
d. Urea
14. An example of a Water Soluble Vitamin would be _____.
a. Vitamin A
b. Alpha Tocopherol
c. Vitamin K
d. Vitamin C
15. In the mammalian circulatory system, blood returns to the heart via the anterior and posterior vena cava and enters the _____ first.
a. Left Atrium
b. Right Atrium
c. Left Ventricle
d. Right Ventricle
16. _____ have the highest energy value.
a. Carbohydrates
b. Minerals
c. Fats
d. Proteins
17. The use of antimicrobial drugs at a lower dosage than would be used for sick animals is referred to as _____.
a. Subclinical
b. Subtherapeutic
c. Nutrient Sparing
d. Anthelmintics

18. Livestock feeds that have greater than _____ % crude fiber are called roughages and those with less are called concentrates.
- 12.5
 - 14
 - 16
 - 18
19. All quadrupedal (four legged) farm animals are part of the class _____.
- Aves
 - Chordata
 - Suidae
 - Mammalia
20. _____ carry an important function in society because they are best suited to convert large quantities of roughages not consumable by humans into food for human consumption.
- Non-Ruminants
 - Ruminants
 - Pseudo-Ruminants
 - Avians
21. Bovine Spongiform Encephalopathy is very similar to _____ in sheep and goats.
- BRSV
 - Scrapie
 - Spider Lamb Syndrome
 - Creutzfeldt-Jakob Disease
22. Rapid fermentation caused by overfeeding of legumes and other feeds is the primary cause of bloat in _____.
- Ruminants
 - Non-Ruminants
 - Pseudo-Ruminants
 - Non-Ungulates

23. A common animal protein supplement is _____, made from dried and ground tissues and bones from slaughterhouses.

- a. Tankage
- b. Truckage
- c. Shrinkage
- d. Pupilage

24. The average normal temperature for swine is _____ °F.

- a. 101.5
- b. 102.0
- c. 102.6
- d. 103.6

25. _____ refers to breaking down feedstuffs into smaller (simpler) substances and _____ refers to taking those substances into the bloodstream.

- a. Digestion :: Absorption
- b. Absorption :: Digestion
- c. Digestion :: Mastication
- d. Mastication :: Deglutition