

Animal Science Reviewer By Agriculture Review

1. What is the phenomenon where crossbred offspring exhibit performance that exceeds the average of their purebred parents?

- A) Inbreeding depression
- B) Epistasis
- C) Heterosis (Hybrid vigor)
- D) Heritability

2. Which of the following is considered the primary site of fertilization within the mammalian female reproductive tract?

- A) Uterus
- B) Cervix
- C) Vagina
- D) Ampulla-isthmus junction (Oviduct)

3. What is the primary protein found in mammalian milk?

- A) Albumin
- B) Globulin
- C) Casein
- D) Keratin

4. What is the standard incubation period for chicken eggs?

- A) 18 days
- B) 21 days
- C) 28 days
- D) 35 days

5. In poultry digestion, what is the primary function of the crop?

- A) Mechanical grinding of feed
- B) Enzymatic digestion of proteins
- C) Temporary storage and softening of feed
- D) Absorption of nutrients

6. In the proximate analysis of animal feeds, which component is measured by the Ether Extract (EE) method?

- A) Crude Protein
- B) Crude Fiber
- C) Crude Fat
- D) Nitrogen-Free Extract

7. What is the most limiting amino acid in standard swine diets based primarily on corn and soybean meal?

- A) Methionine
- B) Tryptophan
- C) Lysine
- D) Threonine

8. Which hormone is primarily responsible for inducing behavioral estrus (heat) in female mammals?

- A) Progesterone
- B) Estrogen
- C) Testosterone
- D) Prolactin

9. Which breed of swine, known for its extreme muscling and heavily spotted black and white body, carries a high incidence of the gene for Porcine Stress Syndrome (PSS)?

- A) Duroc
- B) Pietrain
- C) Berkshire
- D) Landrace

10. What is the pigment primarily responsible for the red color of fresh meat?

- A) Hemoglobin
- B) Myoglobin
- C) Carotene
- D) Melanin

11. Which trace mineral is essential in swine diets to prevent parakeratosis, a condition characterized by severe dermatitis?

- A) Copper
- B) Iron
- C) Zinc
- D) Selenium

12. What term refers to the first feces passed by a newborn mammal, which is sticky, dark, and composed of materials ingested during time in the uterus?

- A) Colostrum
- B) Meconium
- C) Chyme
- D) Cud

13. Which avian disease is caused by an intestinal protozoan parasite and is characterized by bloody droppings, unthriftiness, and high mortality?

- A) Fowl Pox
- B) Coccidiosis
- C) Avian Influenza
- D) Newcastle Disease

14. The term used for the act of giving birth in horses is:

- A) Farrowing
- B) Kidding
- C) Calving
- D) Foaling

15. In the reproductive tract of a laying hen, which section is responsible for secreting the eggshell?

- A) Infundibulum
- B) Magnum
- C) Isthmus
- D) Uterus (Shell Gland)

16. What is the main volatile fatty acid (VFA) produced from the microbial fermentation of grain/concentrates in ruminants, which promotes body weight gain and marbling?

- A) Acetic acid
- B) Propionic acid
- C) Butyric acid
- D) Lactic acid

17. What is the specific culinary term used for the meat of a very young calf (typically fed only milk)?

- A) Chevon
- B) Mutton
- C) Veal
- D) Venison

18. Which of the following is the most common and permanent method of identifying commercial swine?

- A) Freeze branding
- B) Hot iron branding
- C) Ear notching
- D) Leg banding

19. Which group of vitamins is synthesized in adequate amounts by rumen microbes, generally eliminating the need for dietary supplementation in mature cattle?

- A) Vitamin A
- B) Vitamin D
- C) Vitamin E
- D) B-complex vitamins

20. A mature male duck is properly termed a:

- A) Drake
- B) Gander
- C) Tom
- D) Rooster

21. What is the process of illuminating an egg with a bright light source to examine its interior quality and check for embryonic development?

- A) Grading
- B) Candling
- C) Incubating
- D) Sexing

22. What is the name of the twisted, cord-like structure of albumen that keeps the egg yolk suspended in the center of the egg?

- A) Air cell
- B) Vitelline membrane
- C) Chalaza
- D) Blastodisc

23. What term describes a livestock animal that is naturally hornless due to genetic traits?

- A) Castrated
- B) Docked
- C) Polled
- D) Spayed

24. What is the approximate average length of the estrous cycle in cows, sows, and does?

- A) 14 days
- B) 21 days
- C) 28 days
- D) 35 days

25. Which gland secretes melatonin and plays a crucial role in regulating seasonal breeding in animals like sheep and horses?

- A) Thyroid gland
- B) Adrenal gland
- C) Pituitary gland
- D) Pineal gland

26. Which goat breed is easily recognizable by its white body and red head, and is globally renowned for its heavy muscling and meat production?

- A) Saanen
- B) Alpine
- C) Boer
- D) Anglo-Nubian

27. What farm management practice involves the removal of unproductive, sick, or inferior animals from the breeding herd or flock?

- A) Flushing
- B) Culling
- C) Weaning
- D) Drafting

28. What is the metabolic disorder in lactating dairy cows caused by an acute calcium deficiency shortly after calving?

- A) Ketosis
- B) Grass tetany
- C) Milk fever (Parturient paresis)
- D) Bloat

29. What is the collective term for the fetal membranes that protect the developing fetus and are expelled after birth?

- A) Corpus luteum
- B) Placenta (Afterbirth)
- C) Oviduct
- D) Follicle

30. The management practice of increasing the energy and protein in a female animal's diet a few weeks before the breeding season to increase ovulation rate is called:

- A) Creep feeding
- B) Phase feeding
- C) Flushing
- D) Limit feeding

31. Which compartment of the ruminant stomach is affectionately referred to as the 'manypplies' due to its multiple tissue folds that absorb water?

- A) Rumen
- B) Reticulum
- C) Omasum
- D) Abomasum

32. Good quality silage relies on anaerobic bacterial fermentation that preserves the forage primarily by producing which acid?

- A) Acetic acid
- B) Propionic acid
- C) Butyric acid
- D) Lactic acid

33. Which chicken breed is considered the ultimate standard for commercial white table egg production worldwide?

- A) Rhode Island Red
- B) White Leghorn
- C) Plymouth Rock
- D) Cornish

34. What is the term for the mandatory period of non-lactation given to a dairy cow, usually lasting 45 to 60 days before her next calving?

- A) Gestation period
- B) Service period
- C) Dry period
- D) Postpartum period

35. Which of the following describes an inflammation of the mammary gland, primarily caused by bacterial infections like *Staphylococcus aureus* or *Streptococcus agalactiae*?

- A) Metritis
- B) Mastitis
- C) Laminitis
- D) Enteritis

36. Which of these animals relies heavily on microbial fermentation in its large intestine (hindgut fermenter) rather than in a rumen?

- A) Sheep
- B) Goat
- C) Horse
- D) Carabao

37. Coprophagy, the practice of consuming soft feces to maximize the absorption of microbially synthesized proteins and B-vitamins, is an essential behavior for which animal?

- A) Pig
- B) Rabbit
- C) Chicken
- D) Cow

38. On an equal weight basis, which class of nutrients provides the most dense source of energy (approximately 2.25 times more than carbohydrates)?

- A) Proteins
- B) Minerals
- C) Lipids (Fats)
- D) Vitamins

39. What developmental anomaly occurs when one or both testicles fail to descend into the scrotum during fetal development?

- A) Hermaphroditism
- B) Freemartinism
- C) Cryptorchidism
- D) Hypogonadism

40. In commercial poultry processing, what is the term for removing the tip of the beak to prevent cannibalism and feather pecking?

- A) Dubbing
- B) Snooding
- C) Debeaking (Beak trimming)
- D) Caponizing

41. What is the male parent of a mule?

- A) Stallion (Male horse)
- B) Jack (Male donkey)
- C) Gelding
- D) Hinny

42. In feed formulation, any ingredient containing more than 20% Crude Protein is broadly classified as a:

- A) Basal feed
- B) Protein supplement
- C) Roughage
- D) Vitamin premix

43. Which term refers to the sterile female calf born as a twin to a male calf in cattle, caused by shared placental blood circulation?

- A) Heifer
- B) Freemartin
- C) Cryptorchid
- D) Chimera

44. What routine management practice is performed on piglets within 1 to 3 days of age to prevent injury to the sow's udder and to littermates?

- A) Castration
- B) Ear notching
- C) Tail docking
- D) Needle teeth clipping

45. The period from conception to birth in female animals is properly termed:

- A) Lactation
- B) Gestation
- C) Ovulation
- D) Parturition

46. In the study of genetics, the physical appearance or observable characteristic of an animal is known as its:

- A) Genotype
- B) Karyotype
- C) Phenotype
- D) Haplotype

47. Which bacterial disease is zoonotic, characterized by sudden death in livestock, and features unclotted, dark blood bleeding from the natural orifices of the dead animal?

- A) Anthrax
- B) Rabies
- C) Foot and Mouth Disease
- D) Brucellosis

48. What is the term used to describe a castrated male chicken raised primarily for its tender meat?

- A) Cockerel
- B) Broiler
- C) Roaster
- D) Capon

49. In ruminants, what digestive disorder is characterized by the excessive accumulation of fermentation gases in the rumen?

- A) Colic
- B) Bloat (Tympany)
- C) Acidosis
- D) Hardware disease

50. Which hormone is produced by the Corpus Luteum (CL) and is strictly required to maintain pregnancy?

- A) Follicle Stimulating Hormone (FSH)
- B) Luteinizing Hormone (LH)
- C) Prostaglandin
- D) Progesterone

Answer Key

1. C	11. C	21. B	31. C	41. B
2. D	12. B	22. C	32. D	42. B
3. C	13. B	23. C	33. B	43. B
4. B	14. D	24. B	34. C	44. D
5. C	15. D	25. D	35. B	45. B
6. C	16. B	26. C	36. C	46. C
7. C	17. C	27. B	37. B	47. A
8. B	18. C	28. C	38. C	48. D
9. B	19. D	29. B	39. C	49. B
10. B	20. A	30. C	40. C	50. D