

121/2024

Maximum : 100 marks

Time : 1 hour and 30 minutes

1. Which breed of turkey was originated in USA having fast growth rate?
(A) Broad Breasted Bronze (B) Beltsville Small White
(C) None of the above (D) All of the above
2. Which of the following are meat type of duck breeds?
(i) White Pekin
(ii) Indian runner
(iii) Khakhi Campbell
(iv) Muscovy duck
(A) (i) and (ii) (B) (i) and (iii)
(C) (i) and (iv) (D) (ii) and (iv)
3. Which pig breed is known as Red Horse?
(A) Duroc (B) Berkshire
(C) Landrace (D) Hampshire
4. 'Technical section record' in a livestock farm includes
(i) Fodder cultivation register
(ii) Feed stock register
(iii) Daily milk yield register
(iv) Calving register
(A) (i), (ii) and (iii) only (B) (ii), (iii) and (iv) only
(C) (i), (iii) and (iv) only (D) (i), (ii) and (iv) only
5. Name the cattle breed that is also known as White Sindhi :
(A) Tharparker (B) Haryana
(C) Ongole (D) Krishna Valley
6. "Tupping" is the act of mating in which species of animal :
(A) Cattle (B) Goat
(C) Buffalo (D) Sheep
7. In which breed of poultry incubation period of egg is not 28 days?
(A) Chicken (B) Duck
(C) Turkey (D) All of above

8. Which of the Indian chicken breed is known as Kalamasi (black meat)?
- (A) Aseel (B) Kadaknath
(C) Chittagong (D) All of the above
9. Which of the following is the PPE particularly needed when working in a Silo?
- (A) Breathing apparatus (B) Google
(C) Gumboot (D) Ear plug
10. In the term of physical appearance, how do the male Japanese Quails differ from females?
- (A) Males are larger than females
(B) Female produce loud noise during mating season
(C) Males have tan feathers with black speckles on their throat and breast feathers
(D) All of the above
11. Which of the following statement is/are correct?
- (i) Stifle is the joint between Femur Patella and Tibia.
(ii) Pole is the raised region between two horns.
(iii) Liver, Spleen, Kidney, Intestine etc. are located in Pelvic cavity.
(iv) Elbow joint is located in the Hind limb.
- (A) Statement (i) and (ii) (B) Statement (ii) and (iii)
(C) Statement (iii) and (iv) (D) Statement (i) and (iv)
12. Which of the following is not a breed of sheep?
- (A) Marwari (B) Kashmiri
(C) Sirohi (D) Merino
13. Which breed is known as 'Milk Queen of the goat world'?
- (A) Jamunapari (B) Alpine
(C) Saanen (D) Barbari
14. 'Sickle' shaped horns are not found in which breed of buffalo?
- (A) Surti (B) Mehsana
(C) Chilka (D) Jaffrabadhi
15. Which hormone is responsible for letdown of milk in cattle?
- (A) Adrenalin (B) Estrogen
(C) Oxytocine (D) Androgen

16. Which of the following statement is/are correct regarding free range system of cattle rearing?
- (i) Milking is difficult
 - (ii) Not excellent in terms of animal welfare
 - (iii) Feed cost is less
- (A) Only (i) and (ii) (B) Only (ii) and (iii)
(C) Only (i) and (iii) (D) All of the above (i), (ii) and (iii)
17. The number of cows required for double row system of cattle rearing is :
- (A) 11 (B) 10
(C) 8 (D) 5
18. Common feeding passage is present in which intensive system of cattle rearing :
- (A) Tail to tail (B) Head to head
(C) Free range (D) Conventional
19. The standing space length required for a cow is :
- (A) 170 m (B) 110 cm
(C) 17 m (D) 170 cm
20. Which is/are correct about advantages of tail to tail system of cattle rearing?
- (i) Easy for cleaning
 - (ii) Easy for milking
 - (iii) Sun rays fall in the dung channel gutter
- (A) Only (i) and (ii) (B) Only (ii) and (iii)
(C) Only (i) and (iii) (D) All of the above (i), (ii) and (iii)
21. The minimum distance between rearing house and layer house in a poultry farm is :
- (A) 30 m (B) 10 m
(C) 45 m (D) 25 m
22. The suitable milking parlor system for herds of more than one thousand cows is/are :
- (i) Herringbone type
 - (ii) Rotary type
 - (iii) Parallel type
- (A) Only (i) and (ii) (B) Only (ii)
(C) Only (i) (D) All of the above (i), (ii) and (iii)
23. The main gas component in biogas is :
- (A) Carbon dioxide (B) Hydrogen
(C) Ethane (D) Methane
24. Mule is an example of :
- (A) Inbreeding (B) Species hybridisation
(C) Outbreeding (D) Grading up

34. The dry period required for cattle :
- (A) 30 days (B) 45 days
(C) 90 days (D) 60 days
35. The permanent reproductive disability in cattle is known as :
- (A) Sterility (B) Infertility
(C) Anoestrus (D) Fidelity
36. Which of the following statements is a common appliance used in controlling animals that is fixed to the nasal septum of bulls?
- (A) Anti-cow kicker (B) Bull pole
(C) Bull nose ring (D) Halter
37. Which of the following is the temporary dental formula of cattle?
- (A) $0\ 0\ 3\ 3 / 4\ 0\ 3\ 3$ (B) $0\ 0\ 3\ 3 / 4\ 0\ 3\ 0$
(C) $3\ 1\ 3\ 0 / 3\ 1\ 3\ 0$ (D) $3\ 0\ 4\ 3 / 3\ 1\ 4\ 3$
38. Which of the following combinations of plants represent plants that 'fix' nitrogen from the atmosphere, thus forming a major source of protein for farm animals?
- (i) *Zea Mays*
(ii) *Trifolium species*
(iii) *Crotalaria junica*
(iv) *Pennisetum Typhoides*
- (A) (iii) and (iv) (B) (i) and (iii)
(C) (ii) and (iv) (D) (i) and (iv)
39. The content of acetic acid in good silage will be :
- (A) 0.7 to 4 per cent (B) 0.2 to 0.4 per cent
(C) 4 to 6 per cent (D) 1 to 2 per cent
40. The following combinations of choices represent a set of signs of ill health in animals :
- (i) Eating greedily
(ii) Coarse and dry skin
(iii) Lustreless hair
(iv) Moist muzzle
(v) Dry nasal discharge around the nose
- (A) (ii), (iv) and (v) (B) (i), (ii) and (v)
(C) (ii), (iii) and (v) (D) (i), (iii) and (v)
41. CMT reagent contains distilled water along with the following :
- (A) Sodium lauryl sulphate and Teepol only
(B) Sodium lauryl sulphate, bromocresol purple and Teepol only
(C) Bromocresol purple and Teepol only
(D) None of the above

42. Ideal feeding schedule for calves mandate that milk replaces are to be fed to calves from :
- (A) The first 3 to 5 days (B) 6th day to 40th day
(C) 41st day to 90th day (D) Second week to 90 days
43. Which of the following combination of facts are the correct reasons as to why the act of milking a cow should be finished within five to seven minutes?
- (i) Empty the udder completely
(ii) Ensure that the effects of oxytocin are used to a maximum
(iii) To ensure that no residual milk remains in the udder
(iv) To ensure that mastitis is prevented
- (A) (i), (ii) and (iii) only (B) (i), (ii) and (iv) only
(C) (ii), (iii) and (iv) only (D) (i), (ii), (iii) and (iv)
44. From the list of diseases below indicate the one where the carcass should never be opened for post mortem.
- (A) Black Quarter (B) Anthrax
(C) Tetanus (D) Tuberculosis
45. Negri bodies are regarded as a great aid in the diagnosis of which of the following diseases?
- (A) Black Quarter (B) Tetanus
(C) Rabies (D) Johnes Disease
46. Which of the following is a disease of cattle associated with a characteristic hot, painful crepitous swelling of the thick muscles of the thigh?
- (A) Anthrax (B) Tuberculosis
(C) Mastitis (D) Black Quarter
47. Bang's Disease is a synonym for which of the following diseases?
- (A) Johnes Disease (B) Brucellosis
(C) Glanders (D) Rindepest
48. Wool sorter's disease is the common man's term for which of the following conditions?
- (A) Tetanus (B) Ketosis
(C) Anthrax (D) Tuberculosis
49. Which of the following diseases of cattle is characterised by sudden death, bloating and tarry discharge from the natural orifices?
- (A) Anthrax (B) Brucellosis
(C) Tuberculosis (D) Ketosis

50. From the following list of diseases identify which of them are zoonotic and represent a threat to human health?
- (i) Brucellosis
(ii) Tuberculosis
(iii) Ketosis
(iv) Anthrax
- (A) Only (iv) (B) (i), (ii) and (iv)
(C) (i), (iii) and (iv) (D) (ii), (iii) and (iv)
51. Piglet anemia common in young piglets characterized by weight loss, stunted growth and anemia is due to deficiency of which of the following :
- (A) Calcium (B) Iron
(C) Zinc (D) Magnesium
52. Disease condition in rabbits with hair loss from ears and nose, itching and crusts in the ear is known as :
- (A) Mange (B) Sore hock
(C) Pasteurellosis (D) Salmonellosis
53. Act of parturition in sow is known as :
- (A) Kidding (B) Whelping
(C) Farrowing (D) Foaling
54. Rabbit breed among the following is :
- (A) Soviet Chinchilla (B) Grey Giant
(C) Angora (D) All the above
55. Etiology of disease lactic acidosis in goats is :
- (A) Unhygienic environment (B) Poor feeding management
(C) Infectious agents (D) Aerosol inhalation
56. In swine rearing, the procedure used to fasten the fattening of male piglets is :
- (A) Weaning (B) Creep feeding
(C) Tagging (D) Castration
57. An exotic breed of goat originated from Switzerland with high milk yield :
- (A) Beetal (B) Saanen
(C) Boer (D) Malabari
58. Disease in goats caused by spore forming bacterium which is characterized by muscular spasm or seizures :
- (A) Tetanus (B) FMD
(C) Enterotoxaemia (D) PPR

59. Restraining of cats can be done by :
- (A) Scruff method (B) Wrapping in towel
(C) Cat bags (D) All the above
60. Round worm infection in dogs can be diagnosed by which of the following method :
- (A) Blood smear examination (B) Agglutination test
(C) Faecal sample examination (D) None of the above
61. A zoonotic viral disease in dogs :
- (A) Rabies (B) Canine distemper
(C) Parvo disease (D) Kennel cough
62. Gestation period in dogs :
- (A) 30 – 35 days (B) 90 days
(C) 5 months (D) 60 – 62 days
63. Amino acid that is considered as dietary essential for cats :
- (A) Leucine (B) Taurine
(C) Histidine (D) Methionine
64. The only unpaired air sac in birds :
- (A) Abdominal (B) Cervical
(C) Inter clavicular (D) Anterior thoracic
65. The part of oviduct where fertilization occurs in a female bird :
- (A) Infundibulum (B) Vagina
(C) Magnum (D) Isthmus
66. After fertilization the germinal disc in the egg is termed as :
- (A) Endoderm (B) Mesoderm
(C) Ectoderm (D) None of the above
67. Which of the following statement about artificial lighting is/are NOT correct?
- (i) During artificial lighting, light enters through the eyes and stimulate gonads
(ii) Age at sexual maturity and rate of egg production are affected by pattern of lighting
(iii) In grower houses the light period should be increased gradually to a maximum of 16 hours
- (A) Only (i) and (ii) (B) Only (ii) and (iii)
(C) Only (i) and (iii) (D) Only (i), (ii) and (iii)

68. Individual selection is very effective for improvement of traits which are :
- (A) Low heritable (B) Highly heritable
(C) Moderately heritable (D) All the above
69. Which of the following breed is utilised as male parent line in broiler breeding?
- (A) Australorp (B) Plymouth rock
(C) Cornish (D) Rhode Island red
70. Name of the accessory sex gland present in a fowl :
- (A) Seminal vesicle (B) Prostate gland
(C) Cowpers gland (D) None of the above
71. Calcium requirement in layers during phase I and phase II feeding :
- (A) 3.5% and 3% (B) 3% and 3.5%
(C) 2.5% and 3% (D) 3.5% and 4%
72. Which of the following statement is/are correct?
- (i) The vagina of female birds is having sperm nests for holding live sperms
(ii) Absorption of salts and water taking place in magnum
(iii) The oviduct development in birds is insignificant before they attain sexual maturity
(iv) Shell and shell pigments are deposited in the uterus
- (A) Only (i), (ii) and (iii) (B) Only (ii), (iii) and (iv)
(C) Only (i), (ii) and (iv) (D) Only (i), (iii) and (iv)
73. Which of the following disease is a hatchery borne disease?
- (A) Aspergillosis (B) Mycoplasmosis
(C) Mareks disease (D) Newcastle disease
74. At an average humidity, birds will begin panting when the ambient temperature reaches :
- (A) 26.4°C (B) 28.4°C
(C) 27.4°C (D) 29.4°C
75. The order in which bleaching occurs in a laying hen :
- (A) Vent, beak, eye ring, shank, earlobe
(B) Eye ring, beak, shank, vent earlobe
(C) Shank, eye ring, vent, beak
(D) Vent, eye ring, earlobes, beak shank

76. Female quails can be separated from male quails by the presence of :
- (A) Black feathers on the tail
 (B) Brown speckles on the wings
 (C) Black speckles on the neck and breast
 (D) Cinnamon coloured neck and breast
77. Which of the following feed grains cause least viscosity in the poultry droppings?
- (A) Wheat (B) Maize
 (C) Barley (D) Rye
78. Maximum permissible level of aflatoxin in grower poultry feed :
- (A) 2 ppb (B) 10 ppb
 (C) 1 ppb (D) 20 ppb
79. Minimum calcium and phosphorous content in commercially available DCP which is used as feed additive :
- (A) Ca-23%, P-18% (B) Ca-20%, P-15%
 (C) Ca-21%, P-17% (D) Ca-20%, P-16%
80. Blood spot in egg yolk is a defect which is caused by rupture of blood vessels in :
- (A) Isthmus (B) Infundibulum
 (C) Magnum (D) None of the above
81. Viscosity of thick albumen is due to the presence of :
- (A) Ovalbumin (B) Ovoglobulin
 (C) Ovomucin (D) Avidin
82. Which of the following statement is/are true regarding formaldehyde fumigation?
- (i) 3x concentration is used for hatcher trays.
 (ii) 2x concentration is used for first fumigation of eggs in the setter.
 (iii) 1x concentration is used for hatching eggs at farm.
- (A) Only (i) and (ii) (B) Only (i) and (iii)
 (C) Only (ii) and (iii) (D) Only (i), (ii) and (iii)
83. Temperature at chick level in the brooder during first week of brooding :
- (A) 28°C (B) 30°C
 (C) 33°C (D) 35°C
84. Petechial haemorrhage in thigh and leg muscles :
- (A) Ranikhet Disease (B) Infectious Bursal Disease
 (C) Marek's Disease (D) None of the above

85. Avian influenza is caused by the virus belonging to :
- (A) Orthomyxoviridae (B) Paramyxoviridae
(C) Birnaviridae (D) Coronaviridae
86. Outstanding meat breed of duck :
- (A) Indian runner (B) Khaki campbell
(C) White pekin (D) Cayuga
87. The dose and route for administering R₂B vaccine :
- (A) 0.5 ml, subcutaneously (B) 0.2 ml, intramuscularly
(C) 0.2 ml, intraocular (D) 0.5 ml, intranasal
88. Black head disease in turkey is caused by :
- (A) Salmonella typhimurium (B) Histomonas meleagridis
(C) Campylobacter jejuni (D) Clostridium colinum
89. Which of the following statements are correct about egg?
- (i) Eggs are significant source of essential unsaturated fatty acids and Vitamin D.
(ii) Eggs contain high level of calcium especially in the yolk.
(iii) Eggs are rich in vitamin C and various water soluble vitamins
- (A) Only (i) (B) Only (ii)
(C) Only (iii) (D) Only (i) and (ii)
90. Assertion [A] : Shell of an egg consist largely of calcium carbonate with some magnesium carbonate, calcium phosphate and organic matter.
Reason [R] : The pores in the egg shell are partly sealed by keratin (protein) but still permit the escape of carbondioxide and moisture.
- (A) Assertion [A] is true and Reason [R] is false
(B) Assertion [A] is false and Reason [R] is true
(C) Both Assertion [A] and Reason [R] are the true but Reason [R] is not a correct explanation of Assertion [A]
(D) Both Assertion [A] and Reason [R] are the true and Reason [R] is a correct explanation of Assertion [A]
91. What type of emulsion is milk fat?
- (A) Oil-in-water emulsion (B) Water-in-oil emulsion
(C) Gas-in-liquid emulsion (D) Solid-in-liquid emulsion
92. What does the term “overrun” in ice cream production refer to?
- (A) The amount of sugar added to the ice cream mix
(B) The percentage increase in volume of ice cream due to the incorporation of air
(C) The amount of time the ice cream mix is churned
(D) The temperature at which the ice cream is stored

93. When measuring specific gravity by lactometer, which among the following will lead to a value lower than the actual specific gravity of milk sample?
- (A) Removal of fat (B) Removal of cream
(C) Addition of skim milk (D) Addition of water
94. The iodine test is used for the detection of adulteration of milk with which of the following compounds?
- (A) Cane Sugar (B) Formalin
(C) Starch (D) Mercury
95. Which among the following is the international symbol that is used in the packet of irradiated meat?
- (A) Biohazard symbol (B) Radura symbol
(C) Recycling symbol (D) Organic certification symbol
96. Which among the following is not a comminuted meat product?
- (A) Sausage (B) Meatballs
(C) Ground beef (D) Rib eye steak
97. What is the primary function of the Animal Welfare Board of India (AWBI)?
- (A) To provide financial support for animal breeding programs
(B) To enforce laws related to animal welfare and prevent cruelty to animals
(C) To conduct research on animal diseases
(D) To regulate the international trade of animal products
98. How many chapters are there in Prevention of Cruelty to Animals Act 1960?
- (A) 12 (B) 7
(C) 9 (D) 6
99. According to the Transport of Animals Rules, 1978, which of the following is NOT a requirement for the transport of cattle by rail?
- (A) Every wagon carrying cattle must have at least one attendant
(B) Cattle should be loaded parallel to the rails, facing each other
(C) Padding material on the floor of the wagon must be at least 10 m thick to avoid injury
(D) The upper door of one side of the wagon should be kept open for ventilation and fitted with wire mesh to prevent cinders from entering
100. According to the space allowance per cattle in a railway wagon or vehicle, how much space should be provided for a cattle weighing between 300-400 kg?
- (A) 1 m² (B) 1.20 m²
(C) 1.40 m² (D) 2.0 m²

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