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TNPSC
Research Assistant
Previous Year Paper
2019 Paper II



Question Booklet Code : .

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2019

ANIMAL HUSBANDRY AND VETERINARY SCIENCES
(PG DEGREE Std.)

Time Allowed : 3 Hours]

[Maximum Marks : 300

Read the following instructions carefully before you begin to answer the questions.

IMPORTANT INSTRUCTIONS

1. The applicant will be supplied with Question Booklet 15 minutes before commencement of the examination.
2. This Question Booklet contains **200** questions. Prior to attempting to answer, the candidates are requested to check whether all the questions are there in series and ensure there are no blank pages in the question booklet. **In case any defect in the Question Paper is noticed, it shall be reported to the Invigilator within first 10 minutes and get it replaced with a complete Question Booklet. If any defect is noticed in the Question Booklet after the commencement of examination, it will not be replaced.**
3. Answer all questions. All questions carry equal marks.
4. You must write your Register Number in the space provided on the top right side of this page. Do not write anything else on the Question Booklet.
5. An answer sheet will be supplied to you, separately by the Room Invigilator to mark the answers.
6. You will also encode your Question Booklet Code with Blue or Black ink Ball point pen in the space provided on the side 2 of the Answer Sheet. If you do not encode properly or fail to encode the above information, action will be taken as per Commission's notification.
7. Each question comprises *four* responses (A), (B), (C) and (D). You are to select **ONLY ONE** correct response and mark in your Answer Sheet. In case you feel that there are more than one correct response, mark the response which you consider the best. In any case, choose **ONLY ONE** response for each question. Your total marks will depend on the number of correct responses marked by you in the Answer Sheet.
8. In the Answer Sheet there are **four** circles (A), (B), (C) and (D) against each question. To answer the questions you are to mark with Blue or Black ink Ball point pen **ONLY ONE** circle of your choice for each question. Select one response for each question in the Question Booklet and mark in the Answer Sheet. If you mark more than one answer for one question, the answer will be treated as wrong. e.g. If for any item, (B) is the correct answer, you have to mark as follows :
(A) ● (C) (D)
9. You should not remove or tear off any sheet from this Question Booklet. You are not allowed to take this Question Booklet and the Answer Sheet out of the Examination Hall during the time of examination. After the examination is concluded, you must hand over your Answer Sheet to the Invigilator. You are allowed to take the Question Booklet with you only after the Examination is over.
10. **Do not make any marking in the question booklet except in the sheet before the last page of the question booklet, which can be used for rough work. This should be strictly adhered.**
11. In all matters and in cases of doubt, the English version is final.
12. Applicants have to write and shade the total number of answer fields left blank on the boxes provided at side 2 of OMR Answer Sheet. An extra time of 5 minutes will be given to specify the number of answer fields left blank.
13. Failure to comply with any of the above instructions will render you liable to such action or penalty as the Commission may decide at their discretion.

SEAL

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1. The offence including causing suffering and pain to animals is punishable under _____ PCA Act.
- (A) 1978 (B) 1958
☒ (C) 1960 (D) 1965
2. Animals which died of natural causes showing fullness of blood vessels and _____ coloured meat is due to lack of proper bleeding.
- ☒ (A) Dark red (B) Light red
(C) Brownish red (D) Greenish red
3. The white fat deposition in between groups of muscles is a characteristic feature of meat of which of the following species?
- (A) Horse (B) Camel
(C) Fish ☒ (D) Sheep
4. The appeal against an order passed by the veterinary officer under rules other than Rule 15 shall lie with the Director of Animal Husbandry within a period of _____ days from the date of such order.
- (A) 20 days ☒ (B) 15 days
(C) 7 days (D) 28 days
5. The objective of the livestock Importation Act, 1898 is
- (A) To Prevent Importation
(B) To destroy Imported Animals
☒ (C) To Prevent Infectious (or) contagious diseases
(D) To Punish Importers
6. An act to bring about a single statute to food and to lay down science based standards is
- (A) BIS (B) ISI
☒ (C) FSSAI (D) MFPO

7. Govt. of India established _____ for strengthening infrastructure for production of more quality milk.
- (A) National Dairy Development Board (NDDB)
 - ☒ (B) Dairy processing and Infrastructure Development Fund (DIDF)
 - (C) National Agricultural Development Programme (NADP)
 - (D) National Dairy Research Institute (NDRI)
8. Ricin is a compound present in legume seeds which can be destroyed by
- (A) Soaking in water
 - ☒ (B) Heat treatment
 - (C) Germination
 - (D) Grinding
9. Vitamin E is absent in
- (A) Wheat germ oil
 - ☒ (B) Fish liver oil
 - (C) Cotton seed oil
 - (D) Sunflower oil
10. Rumen degradable and undegradable protein system was first proposed by
- ☒ (A) Agricultural Research Council
 - (B) National Research Council
 - (C) Indian Agricultural Research Council
 - (D) Veterinary Council of India
11. The technique employed to calculate least cost and profit maximizing rations is called as
- (A) Trial and Error method
 - (B) Pearson's Square method
 - ☒ (C) Linear Programming
 - (D) Algebraic method

12. Which one of the following organisation has not involved for the study on problem of green house gas emissions and control in India?
- (A) Indian Institute of Management (Ahmedabad)
(B) National Dairy Research Institute (Kurnool)
(C) Maulana Azad National Institute of Technology (Bhopal)
☒ (D) Indian Institute of Technology (Chennai)
13. Frequent kicking at abdomen, pawing, sweating and getting up and down are characteristic symptoms of
- (A) Enteritis in goat
☒ (B) Colic in horse
(C) Collibacillosis in pigs
(D) Vibriosis in cattle
14. During first week of breeding the relative humidity should be
- (A) 10-20%
(B) 65-70%
(C) 80-90%
(D) 30-40%
15. Dairy animals can be kept in open padlock throughout the day and night except during milking is termed as
- (A) Conventional barn system
☒ (B) Semi-intensive system
(C) Loose housing system
(D) Extensive system
16. The Dental pad of upper jaw is absent in
- ☒ (A) Horse
(B) Sheep
(C) Cattle
(D) Goat
17. Which one of the following instrument is commonly used for opening of mouth of dairy cow?
- (A) Muzzle
☒ (B) Gag
(C) Cradle
(D) Halter
18. Computation of inbreeding coefficient of an individual from pedigreed populations using path coefficient method was developed by
- (A) Malecot
☒ (B) Haldane
(C) Wright
(D) Van Vleck

19. The freezing point of meat lies between _____ °C.
- (A) 3 & 4 (B) 1 & 1.5
(C) 0 & 1 ☒ (D) -1 & -1.5
20. The recommended light intensity at work rooms in an abattoir is
- (A) 10 foot candles
☒ (B) 20 foot candles
(C) 30 foot candles
(D) 40 foot candles
21. Egg is a potent source of the following
- (A) Vitamin A, rich in Calcium and Vitamin C
☒ (B) Vitamin D, low in Calcium and devoid of Vitamin C
(C) Vitamin B₁₂, high in Iron and devoid of Vitamin A & D
(D) Vitamin C, low in Iron and poor in Calcium
22. Casings are prepared from _____ layer of intestine.
- (A) Mucosal ☒ (B) Sub-mucosal
(C) Muscular (D) Serosal
23. The haemal lymphnodes are found only in
- (A) Pigs (B) Cattle
☒ (C) Sheep and Goat (D) None of the above

24. Self-carbonated milk beverage is called as

(A) butter milk

(B) flavoured milk

☒ (C) kefir

(D) kumiss

25. The iron content of Khoa should be more than

(A) 175 ppm

☒ (B) 100 ppm

(C) 200 ppm

(D) 250 ppm

26. The solubility index for roller dried milk powder is

(A) 25

☒ (B) 15

(C) 30

(D) 10

27. Kostler number in mastitis milk is less than

(A) 4.0

☒ (B) 3.0

(C) 4.5

(D) 6.0

28. The diacetyl content of butter as per PFA standard is

☒ (A) 4 PPM

(B) 5 PPM

(C) 6 PPM

(D) 3 PPM

29. Fat content of cow milk is

(A) 2.5%

☒ (B) 3.5%

(C) 5.5%

(D) 4.5%

30. A short series of 'lectures' usually made by 2 to 5 speakers

(A) Debate

(B) Seminar

☒ (C) Symposium

(D) Discussion

31. The district level Panchayat Raj tier is

(A) Gram Panchayat

(B) Panchayat Samithi

(C) District Samithi

☒ (D) Zilla Parishad

32. A placard displayed in a public place with the purpose of creating awareness among the people

(A) Notice

(B) Film sticker

(C) Flash card

☒ (D) Poster

33. Example for Audio-Visual aids

☒ (A) motion picture

(B) specimen

(C) slide

(D) flash card

34. _____, this method is used to present technical information to develop and integrate ideas.

(A) Debate

☒ (B) Lecture

(C) Conference

(D) Workshop

35. Normal twinning rate in Goats is
- (A) 30% ☐ (B) 40% ☒
- (C) 50% ☐ (D) 60% ☐
36. Systematic walk with key informants through the area of interest, observing, listening and seeking problems and solutions is called as
- (A) Social mapping ☐
- ☒ (B) Transact
- (C) Walking exercise ☐
- (D) Observational study ☐
37. A set of ideas developed for the operation of Co-operatives
- ☒ (A) Rochdale principles ☐ (B) Kelsey principles
- (C) Roger principles ☐ (D) Kurian principles
38. Price spread is the difference between
- ☒ (A) Producer price and consumer price
- (B) Fixed price and variable price ☐
- (C) Average price and marginal price ☐
- (D) Average cost and marginal cost ☐
39. The demand for livestock products in India keeps rising, because they have _____ demand
- (A) Income inelastic ☐ ☒ (B) Income elastic
- (C) Price inelastic ☐ (D) Price elastic ☐
40. The end product of aerobic glycolysis is
- (A) Glucose ☐ ☒ (B) Pyruvate
- (C) Lactate ☐ (D) Fructose ☐

41. Contraction of gall bladder and relaxation of sphincter of oddi is initiated by
(A) Gastrin (B) ☒ Cholecystokinin
(C) Secretin (D) Brady kinin
42. What is the main function of paneth cells in small intestine?
(A) Absorption of nutrients
(B) Secretion of mucous
(C) Secretion of hormones
(D) ☒ Production of bacteriolytic enzymes
43. Normally rubriblasts develop into matured erythrocytes in
(A) ☒ 4-5 days (B) 14-15 days
(C) 24-25 days (D) 25-35 days
44. The Heterotropic bone present in the male genital tract of the Dog and Bats
(A) Osrostri (B) Oscordis
(C) Osphrenic (D) ☒ Oспенis
45. Ligaments are absent from this joint, so that dislocation very seldom occurs
(A) Elbow joint (B) ☒ Shoulder joint
(C) Hip joint (D) Stifle joint
46. This muscle extends from the distal third of the femur to the point of the hock
(A) Soleus
(B) Superficial digital flexor
(C) ☒ Gastrocnemius
(D) Deep digital flexor

47. Which one of the following drug facilitates examination of penis in bulls and stallions?
- (A) Droperidol (B) Climazdam
☒ (C) Acepromazine (D) Flumazenil
48. Which one of the following anticholinergic agent does not readily cross the blood brain barrier and might have less effect on vision?
- (A) Atropine (B) Hyoscine
 (C) Fenpipramide ☒ (D) Glycopyrrolate
49. What is the difference in the film blackness between the areas in the image obtained a radiograph?
- (A) Radiographic density (B) Radiographic detail
 (C) Radiographic definition ☒ (D) Radiographic contrast
50. What causes blockade of a single nerve or groups of nerves to provide anaesthesia of the distal fore limb?
- (A) Epidural and intrathecal analgesia (B) Intravenous regional analgesia
 (C) Intra articular analgesia ☒ (D) Regional local analgesia
51. Which one of the following is visualized thin radiolucent lines arising from complete fractures in a radiograph?
- (A) Osteochondral fracture (B) Shearing fracture
☒ (C) Fissure fracture (D) Depression fracture
52. What is the quantity of polyionic isotonic fluid that can be given intravenously during the first hour without adverse effects in hypovolemic dog undergoing surgery?
- (A) 20 to 30 ml/kg (B) 30 to 45 ml/kg
 (C) 45 to 60 ml/kg ☒ (D) 60 to 90 ml/kg
53. Which one of the following is beneficial for reducing total fluid requirements, limiting oedema and increasing cardiac output?
- (A) Hypotonic saline (B) Isotonic saline
☒ (C) Hypertonic saline (D) Cryo precipitate

54. What is called the Break in the continuity of soft tissue caused by trauma?
- (A) Abscess (B) Ulcer
☒ (C) Wound (D) Cyst
55. Which of the following describes a wound healing achieved by secondary sutures?
- (A) First intention healing
(B) Second intention healing
(C) Mixed intention healing
☒ (D) Third intention healing
56. In which degree of burn injury the blisters are formed by exudation of plasma?
- (A) 1st degree ☒ (B) 2nd degree
(C) 3rd degree (D) 4th degree
57. What is the minimum "Norberg" angle measured in canine hip dysplasia?
- (A) 100° and below ☒ (B) 105° and above
(C) 60° and above (D) 30° and above
58. What is a cyst resulting from failure of the branchial arches to fuse?
- (A) Dentigerous cyst (B) Dermoid cyst
(C) Urachal cyst ☒ (D) Honey cyst
59. What is pain due to compression of sensory nerve terminals in the area of inflammation?
- (A) rubor ☒ (B) dolor
(C) calor (D) tumour

60. Based on the structures that intervene between the maternal and foetal blood, the endotheliochorial type of placenta is found in

- (A) Cow (B) Sheep
☒ (C) Dog (D) Rodents

61. In cows and ewes ————— is the most favourable site for survival of sperms in the female genitalia where it can remain viable for 36-48 hours.

- (A) vagina ☒ (B) cervix
(C) uterus (D) oviduct

62. In dog sitting posture, the foetus is in

- (A) anterior presentation
(B) posterior presentation
(C) oblique presentation
☒ (D) transverse presentation

63. As postmortem decomposition takes place after the death of the foetus, the corneas become cloudy and grey at

- (A) 6 hours ☒ (B) 12 hours
(C) 18 hours (D) 24 hours

64. Wilmut et al. achieved the production of first cloned lamb from adult somatic cells in the year

- (A) 1986 (B) 1992
☒ (C) 1996 (D) 2000

65. Phallocampsis is
- (A) inability to withdraw the penis
 - (B) loss of libido
 - (C) inability to copulate
 - ☒ (D) deviation of penis
66. Which of the following is NOT suitable for synchronizing oestrus in pigs?
- (A) Oestrogen + PGF₂ α
 - (B) Progestogen in feed
 - (C) hCG + PGF₂ α
 - ☒ (D) PGF₂ α alone
67. In cattle, high intake of rumen degradable protein may lead to embryonic mortality due to
- (A) Increased incidence of uterine infection
 - ☒ (B) Alteration in pH of uterine environment
 - (C) Obesity
 - (D) Lipid accumulation
68. The quality of semen is good if methylene blue is reduced by
- (A) 0-3 minutes
 - ☒ (B) 3-6 minutes
 - (C) 6-9 minutes
 - (D) More than 9 minutes
69. Prostatic secretions have high content of
- (A) Copper
 - ☒ (B) Zinc
 - (C) Cobalt
 - (D) Iron
70. Contagious equine metritis is caused by
- (A) *Coxiella burnettii*
 - (B) *Francisella tularensis*
 - (C) *Bordetella bronchiseptica*
 - ☒ (D) *Taylorella equigenitalis*

71. The causative agent of crop mycosis (thrush) in young chickens and turkeys
- (A) *Cryptococcus neoformans*
 - (B) *Microsporum nanum*
 - ☒ (C) *Candida albicans*
 - (D) *Microsporum gypseum*
72. Sterile insect technique is commonly employed in the control of
- (A) Ticks
 - (B) Mites
 - ☒ (C) Blow flies
 - (D) Mosquitoes
73. 'TICKGARD' is a midgut vaccine against
- (A) *Rhipicephalus sanguineus*
 - ☒ (B) *Rhipicephalus microplus*
 - (C) *Haemaphysalis bispinosa*
 - (D) *Hyalomma marginatum*
74. Cobalt deficiency in farm animals results in _____ vitamin deficiency.
- (A) Vitamin-A
 - (B) Vitamin-K
 - (C) Vitamin-E
 - ☒ (D) Vitamin-B₁₂
75. Which virus has single stranded DNA as its genome?
- (A) Adeno viridae
 - ☒ (B) Circo viridae
 - (C) Irido viridae
 - (D) Pox viridae
76. "Wryneck" in sheep is caused by
- (A) Sheep pox
 - (B) *Clostridium perfringens*
 - ☒ (C) Blue tongue
 - (D) PPR

77. Vaccines containing killed bacteria are called
☒ (A) Bacteria (B) Toxoids
(C) Adjuvant (D) Cytokines
78. The complement component which binds irreversibly to bacteria and initiates bacterial killing or phagocytosis is
(A) C₉ (B) C₆
☒ (C) C₃ (D) C₅
79. 'McFadyen's reaction' is associated with
(A) *Brucella abortus*
(B) *Mycobacterium bovis*
☒ (C) *Bacillus anthracis*
(D) *Clostridium tetani*
80. Coggin's agar gel immunodiffusion test is used for diagnosis of
☒ (A) Equine infectious anaemia
(B) Equine influenza
(C) Equine viral pneumonitis
(D) Strangles
81. Tropical theileriosis is due to
☒ (A) *Theileria annulata* (B) *Theileria parva*
(C) *Theileria mutans* (D) *Theileria hirci*
82. The following ingredients are commonly used in ethno veterinary medicine for treating helminthiasis except
(A) *Piper nigrum* (B) *Leucas aspera*
(C) *Azadirachta indica* ☒ (D) *Acalypha indica*

83. 'Spectacle eye' develops due to deficiency of
☒ (A) Biotin
 (B) Ascorbic acid
 (C) Folic acid
 (D) Niacin
84. Which disease causes hypokalemia in ruminants?
 (A) Disease of Aorta ☒ (B) Diseases of Abomasum
 (C) Disease of Liver (D) Disease of Pancreas
85. A 3 year old male dog had a history of acute abdominal pass and vomiting. It had 6% dehydration. X ray revealed enlarged kidneys. CBC and Biochemistry were normal. Urinalysis results are SG : 1.035, Protein : ++, Blood : +ve; Sediment: >10 WBCs/HPF. What is your tentative diagnosis?
 (A) Chronic renal failure ☒ (B) Acute pycelonephrin's
 (C) Acute Pancreanin's (D) Transitional cell carcinoma
86. What are the characteristic features of complete Heart Block?
☒ (A) Usually slow heart rate which is constant and does not vary
 (B) Usually Extremely High Heart rate, which varies
 (C) Complete Blockage of Blood supply
 (D) Complete Blockage of oxygen supply
87. Phonocardiography is used for
☒ (A) Characterization and timing of murmurs
 (B) Recording ECG in horses
 (C) Recording systolic pressure in cattle
 (D) To measure vascular elasticity

88. Which of the following causes post parturient hemoglobinuria in cattle?
☒ (A) Phosphorous deficiency (B) Ca deficiency
(C) K deficiency (D) Mg deficiency
89. What is the recommended dietary cation-anion difference (DCAD) Per kg DM of feed for prevention milk fever, in cattle?
(A) -50-60 1 Msg/Kg feed DM (B) -65-70 1 Msg/Kg feed DM
☒ (C) -100-200 Msg/Kg feed DM (D) -75-85 Msg/Kg feed DM
90. The antibacterial activity of amoxicillin many include pencillinase-producing organisms if it is combined with
(A) Phenethicillin (B) Enrofloxacin
(C) Ampicillin ☒ (D) Clavulanic acid
91. What is mechanism of action of tetracycline?
☒ (A) Binding to 30s ribosome of bacteria
(B) Binding to phospholipids of bacteria
(C) Binding to 50s ribosome of bacteria
(D) Inhibition of DNA gyrase of bacteria
92. Brain tumours are more often seen in
(A) German Shepherd breed (B) Great dane breed
☒ (C) Bull dog breed (D) Spitz breed
93. Liquefactive necrosis is common in brain because of the following except
(A) Rich lipid content (B) Rich lytic enzymes
☒ (C) Rich blood supply (D) Lack of fibrous interstitium

94. Pleocytosis indicates
- (A) Ingestion foreign materials by cells
 - (B) Variation in the size of cells
 - (C) Increase in Leukocytes in blood
 - ☒ (D) Increase in the number of nucleated cells in CSF
95. Which one of the following post-mortem change is not seen in electrocution?
- (A) Fracture of long bones
 - (B) Bloody discharge from natural orifice
 - (C) Haemorrhage in skeletal muscle
 - ☒ (D) Pulmonary oedema
96. In Infections bursal disease affected chicken, the harderian gland shows
- (A) Increased number of lymphocytes
 - (B) Increased number of plasma cells
 - ☒ (C) Decreased number of plasma cells
 - (D) Increased number of neutrophils
97. Example for intercellular parasite is
- (A) Plasmodium
 - ☒ (B) Trypanosoma
 - (C) Babesia
 - (D) Theileria
98. Oocysts of cryptosporidium parvum can be demonstrated by using
- ☒ (A) Modified Ziehl Neelsen's stain
 - (B) Lugols iodine
 - (C) Giemsa stain
 - (D) Leishman's stain

99. Milk production in India at the end of the Eleventh Plan (2011-12) period was
(A) 102.6 million tonnes ☒ (B) 127.9 million tonnes
(C) 155.5 million tonnes (D) 165.4 million tonnes
100. Meat production in India in 2016-17 was
(A) 5.5 million tonnes ☒ (B) 7.4 million tonnes
(C) 6.5 million tonnes (D) 2.3 million tonnes
101. The commonest method of mischievous killing of an animal is
(A) Cutting tendons (B) Fracturing the bone
☒ (C) Poisoning (D) Bestiality
102. Bestiality is punishable under Section _____ of IPC.
(A) 347 (B) 367
☒ (C) 377 (D) 357
103. A qualified veterinarian can _____ the horse if it is affected with dourine.
(A) Destroy (B) Treat
☒ (C) Castrate (D) Quarantine
104. The reason for seizure of a horse according to glanders and Farcy Act, 1899 is
(A) No licence (B) Poor maintenance
(C) Poor fittings ☒ (D) Diseased
105. Under the Dourine Act, 1910, appointment of a person shall be deemed to be a Public Servant within the meaning of IPC
☒ (A) 45 of 1860 (B) 55 of 1860
(C) 45 of 1870 (D) 55 of 1870

106. Sanitary Import Permit (SIP) is issued for high risk products like
☒ (A) Meat & Meat Products (B) Canine vaccines
(C) Wild birds (D) Accessories for pets
107. Central Referral Laboratory (CRL) the apex laboratory of Tamil Nadu state for diagnosis of livestock diseases is located at
(A) Directorate of Animal Health Studies (TANURES) Madhavaram
☒ (B) Institute of Vet. Preventive Medicine (IVPM), Ranipet
(C) Animal Disease Intelligence Unit, Namakkal
(D) Animal Disease Diagnostic Unit, Madurai
108. Which of the following plant intoxicities causes dryness of the mouth?
(A) Ricinus Communis ☒ (B) Datura Stramonium
(C) Oak (D) Eupatorium
109. Which of the following techniques is reliable for estimating fatty infiltration of liver?
☒ (A) Liver biopsy (B) Ultrasound
(C) Laproscopy (D) Radiography
110. Elevation and rigidity of tail, ears and limbs are good indications of _____ in animals.
☒ (A) Tetanus (B) Electrocution
(C) Botulism (D) Cyanide poisoning
111. Which one of the following is untrue, with respect to maintenance of Veterinary facilities at Zoos?
(A) All Zoos shall have quarantine units
(B) All Zoos shall have handling units
☒ (C) All Zoos shall not have postmortem rooms
(D) All Zoos shall have referral lab

112. Non-ruminant roughage grazer is
(A) Guar ☒ (B) Zebra
(C) Giraffe (D) Deer
113. Sunflower meal is an unconventional vegetable protein supplement which is rich in _____ amino acid.
(A) Lysine (B) Arginine
(C) Tryptophan ☒ (D) Methionine
114. The ammonical nitrogen content of very good silage is
(A) More than 10% ☒ (B) Less than 10%
(C) Less than 20% (D) More than 20%
115. Black tongue in dog is caused by deficiency of
☒ (A) Niacin (B) Thiamine
(C) Vitamin C (D) Riboflavin
116. Which vitamin needs Intrinsic factor for its absorption?
☒ (A) Vit. B12 (B) Vit. B6
(C) Vit. B2 (D) Vit. B1
117. Record maintenance in an organised dairy farm will not be helpful
(A) To know the production performance of animals
(B) To monitor the feeding practices
(C) To know the breeding performance
☒ (D) To protect the animals from natural calamities

118. Storing the gametes of wide variety of species by cryopreservation at one place is called
- (A) Gene Bank
 - (B) Genome Bank
 - ☒ (C) Genome Resource Bank
 - (D) Genome Reserve Bank
119. Which breed of native bullocks was utilized by Tippu Sultan to carry cannons in the war against East India Company?
- (A) Kangayam
 - (B) Hallikar
 - (C) Alambadi
 - ☒ (D) Amritmahal
120. Size of a standard population equally divided between males and females which would have the same rate of inbreeding drift as the one in question is called
- (A) Efficient Population Size
 - (B) Endangered Population Size
 - (C) Energetic Population Size
 - ☒ (D) Effective Population Size
121. Rendered pig fat is called as
- (A) Leaf fat
 - (B) Rind
 - (C) Tallow
 - ☒ (D) Lard
122. Blood splashing in muscle occurs due to delay between
- (A) Stunning and Shackling
 - ☒ (B) Stunning and Sticking
 - (C) Sticking and Skinning
 - (D) Flaying and evisceration

123. Slaughter of dead animal is called
(A) humane slaughter
(C) ritual slaughter
(B) cold slaughter
(D) casualty slaughter
124. Muslim method of slaughter is called
(A) Schechitta
(C) Jatka
(B) Halal
(D) Jewish
125. The penetrative type of cash captive bolt pistol produces unconsciousness by
(A) Physical brain destruction
(B) Chemical brain destruction
(C) Biological brain destruction
(D) Spinal cord destruction
126. Rennet is manufactured from _____ of the calf
(A) Omasum
(C) Rumen
(B) Abomasum
(D) Reticulum
127. The duration for continuous method of Pasteurization of milk is
(A) 15 sec
(C) 63 sec
(B) 30 sec
(D) 72 sec
128. In retail markets, the storage temperature of butter should be
(A) not exceeding 8°C
(B) not exceeding -1°C
(C) not exceeding 4°C
(D) below 0°C
129. Homogenization of milk
(A) increases the fat globules size
(B) increases the protein particle size
(C) decreases the fat globules size
(D) decreases the protein particle size

130. The term 'extension education' was first used in 1873 by
- (A) Anna University
 - ☒ (B) Cambridge University
 - (C) Veterinary University
 - (D) Madras University
131. Flash card should be large enough atleast by _____ for every one to see.
- (A) 21 by 27 inches
 - ☒ (B) 22 by 28 inches
 - (C) 23 by 29 inches
 - (D) 24 by 30 inches
132. A division to make full use of an innovation as the best course of action available.
- ☒ (A) Adoption
 - (B) Diffusion
 - (C) Innovation
 - (D) Communication
133. Seven or eight persons are given a common task to perform and they may or may not select their leader. This process is known as
- (A) Interview
 - (B) Performance test
 - ☒ (C) Leaderless group test
 - (D) Focal group discussion
134. One of the behavioural components of human being is
- ☒ (A) knowledge
 - (B) solution
 - (C) interview
 - (D) evaluation

135. The total poultry population in Tamil Nadu as per the latest census is ————— millions.

- ☒ (A) 117.3 (B) 97.3
(C) 127.3 (D) 100.01

136. ————— is a perishable livestock products.

- (A) Cow (B) Feeder
☒ (C) Meat (D) Leather

137. The primary book of entry in which all transactions are recorded

- ☒ (A) Journal (B) Magazine
(C) Ledger (D) Cash book

138. An ICT initiative aimed at development of farm sector

- ☒ (A) Kissan call centre (B) Information Kiosk
(C) Internet Kiosk (D) Telemarketing

139. LCD stands for

- (A) Light Crystal Deposit
(B) Light Crystal Display
☒ (C) Liquid Crystal Display
(D) Liquid Crystal Door

140. The pancreas protects itself against self-digestion by making a specific inhibitor protein called
- (A) Carboxypeptidase B (B) Carboxy peptidase A
(C) Aminopeptidase ☒ (D) Pancreatic Trypsin Inhibitor
141. Which of the following removes fine dust particles and other debris from the alveolar spaces?
- ☒ (A) Macrophages (B) Neutrophils
(C) Lymphocytes (D) Eosinophils
142. The QRS complex in ECG would immediately precede which of the following event?
- ☒ (A) Ventricular contraction (B) Ventricular relaxation
(C) Atrial contraction (D) Atrial relaxation
143. In dogs the most commonly occurring coagulation defect hemophilia A is due to the deficiency of
- ☒ (A) Factor VIII (B) Factor XI
(C) Factor X (D) Factor IX
144. Injecting bromocriptone decreases which of the following hormone secretion?
- (A) Growth hormone (B) Thyroxine
(C) Parathormone ☒ (D) Prolactin
145. Which of the following segment of nephron is involved in counter current multiplication process?
- (A) Proximal convoluted tubule (B) Distal Convoluted tubule
(C) Collecting duct ☒ (D) Loop of Herb
146. Which one of the following cells become more prevalent in circulating blood after a prolonged period of erythropoiesin secretion?
- ☒ (A) Reticulocyte (B) Monocyte
(C) Thrombocyte (D) Lymphocyte

147. The vestigial first premolar of the horse is popularly termed
(A) Pinchers (B) Hipplers
☒ (C) Wolf-teeth (D) Canine teeth
148. A short tube of complex valvular apparatus and is the chief organ of voice
(A) Trachea (B) Bronchi
☒ (C) Larynx (D) Pharynx
149. In the neck of the Omasum the laminae change to thick folds, and there are a number of the peculiar papillae
(A) Filiform papillae (B) Fungiform papillae
☒ (C) Unguiform papillae (D) Conical papillae
150. In the cervix of the ewe the external OS is located in the cranial ventral portion of the vagina and is partially covered by a _____ of mucosa.
☒ (A) Boord (B) Hood
(C) Fornix (D) Portio Vaginalis
151. Which expands generally at the time of erection and prevents withdrawal during ejaculation in dogs?
(A) Pars longa grandis ☒ (B) Bulbus grandis
(C) OS Penis (D) Glans penis
152. Which species has almond shaped ovaries?
(A) Cow (B) Sow
☒ (C) Ewe (D) Mare

153. Which one of the following suture material belongs to organic non absorbable?
- (A) Polyester ☒ (B) Silk
(C) Nylon (Polyamide) (D) Poly propylene
154. What suture material is used to repair hernias or reinforce traumatized or devitalized tissue?
- (A) Staples (B) Autologous fibrin glue
☒ (C) Surgical mesh (D) Tissue adhesives
155. Which of the following suture pattern comes under eversion suture pattern?
- (i) Horizontal mattress
(ii) Lembert pattern
(iii) Cushing pattern
(iv) Vertical mattress
- (A) (i) only (B) (ii) and (iii)
(C) (i) and (iii) ☒ (D) (i) and (iv)
156. What is surgical knot recommended for suture material that are likely to slip?
- (A) Square Knot (B) Granny Knot
☒ (C) Nylon Knot (D) Half hitch Knot
157. What procedure is done to arrive at a diagnosis or for conformation of a disease?
- (A) Reconstructive surgery
(B) Experimental surgery
(C) Clinical surgery
☒ (D) Exploratory surgery

158. What is a tubular inflammatory tract opening at both ends connecting two surfaces covered by epithelium?
- (A) Bier's hyperaemia ✓ (B) Fistula
(C) Sinus (D) Carbuncle
159. In which stage of wound healing, centripetal movement of the whole thickness of the surrounding skin appears?
- (A) inflammatory ✓ (B) wound contraction
(C) wound maturation (D) epithelialization
160. The hormone that prepares the uterus for acceptance of a fertilized ovum or embryo
- (A) estrogen ✓ (B) progesterone
(C) oxytocin (D) prolactin
161. During praestrus stage _____ is selected by the anterior pituitary gland to stimulate the development of the Graafian follicle.
- (A) LH ✓ (B) ESH
(C) PMSG (D) Estrogen
162. The duration of estrus in ewe
- (A) 7-9 days ✓ (B) 1-2 days
(C) 3-5 days (D) 5-7 days
163. Bull spermatozoa with strongly coiled, folded or split tails with abnormal arrangement of fibers in the axial filaments is seen in
- (A) corkscrew sperm defect (B) pseudo-droplet defect
(C) knobbed spermatozoa ✓ (D) dag-defect

164. Potato soup like thin, yellow grey, watery flocculent vaginal discharge is characteristic of _____ infection.
- (A) Mycoplasmosis ☒ (B) Trichomoniasis
(C) Brucellosis (D) Vibriosis
165. The duration of the second stage of parturition in mare is about
- (A) 17 hours (B) 70 minutes
☒ (C) 17 minutes (D) 17 seconds
166. Members of glycoproteins secreted by trophoblastic ectoderm and can be used to confirm pregnancy in cattle
- ☒ (A) Pregnancy associated glycoproteins
(B) Progesterone
(C) Relaxin
(D) Gonadotrophins
167. The best general anaesthetic drug of choice for performing caesarean operation in a bitch is
- (A) Thiopental (B) Ketamine
☒ (C) Propofol (D) Nitrous oxide
168. The hormone responsible for the initial budding and growth of the duct system of the mammary gland is
- (A) Testosterone (B) Progesterone
☒ (C) Estrogen (D) Prolactin
169. The male animals should be used for breeding purpose _____ after attaining puberty:
- (A) 3-6 months ☒ (B) 6-12 months
(C) 12-18 months (D) 18-24 months

170. The causative agent of "Lumpy jaw" in cattle is

- (A) *Aracanobacterium pyogenes*
- ☒ (B) *Actinomyces bovis*
- (C) *Actinobacillus lignieresii*
- (D) *Streptococcus mutans*

171. Infection or diseases scattered in occurrence usually individual cases

- (A) Pandemic
- ☒ (B) Sporadic
- (C) Endemic
- (D) Epidemic

172. The organism which produces "Medusa head" type or judge's wig type colonies

- (A) *Streptococcus* spp
- (B) *Pasteurella multocida*
- ☒ (C) *Bacillus anthracis*
- (D) *Clostridium chauvoei*

173. The preferred serological procedure for diagnosis of *Leptospira*

- (A) ELISA
- ☒ (B) Microscopic Agglutination Test (MAT)
- (C) Complement Fixation Test (CFT)
- (D) Dot-ELISA

174. Which organism appears as a single celled cigar-shaped body (yeast form) in tissues?

- (A) *M. gypseum*
- ☒ (C) *S. schenckii*
- (B) *C. neoformans*
- (D) *C. albicans*

175. The causative agent of contagious pustular dermatitis is

- (A) C. Perfringens
- (B) C. Albicans
- ✓ (C) Parapox virus
- (D) Rhabdo virus

176. 'Dunkop' and Dikkop forms are noticed in

- ✓ (A) African horse sickness
- (B) Equine infectious anemia
- (C) Glanders
- (D) Hendra virus infection

177. Virus which has a highly distinctive "wheel like appearance"

- ✓ (A) Rota virus
- (B) Lenti virus
- (C) Orbi virus
- (D) Pox virus

178. "Swollen head syndrome" in chicken is caused by

- (A) Type C pneumo virus
- ✓ (B) Type A and B pneumo virus
- (C) Type A pneumo virus
- (D) Type B pneumo virus

179. Visions are composed of an envelope covered with club shaped and spiked in

- (A) Pox virus
- (B) Influenza virus
- ✓ (C) Arena virus
- (D) Bunya virus

180. Among samples recommended for doping investigation, which among the following is incorrect
- (A) Saliva (B) Urine
(C) Sweat ☒ (D) Hair
181. What does PR interval in ECG indicate?
- ☒ (A) From the start of P wave to the start of QRS
(B) From the start of P wave to the end of R wave
(C) From the start of P wave to the end of QRS
(D) From the start of P wave to the start of S wave
182. The first sub unit vaccine against poultry coccidiosis Cox Abic contains
- (A) Schizonts (B) Merozoites
(C) Trophozoites ☒ (D) Gametocyte
183. The gas used for stunning of food animal is
- (A) Oxygen
(B) Nitrogen
☒ (C) Carbondioxide
(D) Hydrogen
184. Glycosuria has been associated with all of the following except
- (A) Intravenous infusion of dextrose contains fluids
(B) Urinary obstruction, especially in cats
(C) Nephrotoxins causing renal tubular disease
☒ (D) Heartworm disease

185. Holter Recording/Monitoring is used to diagnose

- (A) Systemic hypertension
- ☒ (B) Syncope
- (C) Systemic vascular resistance
- (D) Systemic inflammatory Response Syndrome

186. Match the colour of vomitus with the anatomic source and give your correct matched answer code.

- | | |
|-------------------------|-------------------|
| (a) Blood (fresh) | 1. Gastric |
| (b) White mucoid | 2. Biliary reflux |
| (c) Fetid, green, brown | 3. Duodenal |
| (d) Yellow/green | 4. Esophageal |

- | | | | |
|---|-----|-----|-----|
| (a) | (b) | (c) | (d) |
| <input checked="" type="checkbox"/> (A) 4 | 1 | 3 | 2 |
| (B) 1 | 2 | 4 | 3 |
| (C) 2 | 3 | 1 | 4 |
| (D) 3 | 4 | 2 | 1 |

187. Emergency Treatment for Acetaminophen Intoxication in cats is

- | | |
|---|-----------------|
| (A) Methyl prednisolone | (B) Ranitidine |
| <input checked="" type="checkbox"/> (C) N-Acetyl cysteine | (D) Paracetamol |

188. A five year old female dog is presented with a per of 10% and is of 8.08/dl. It was depressed with tachypnea (RR-40 bpm), tachycardia (HR-180 bpm) with weak peripheral pulse and hypothermia (37-2°C). CRT is prolonged (7 sec) and mucosa is icteric. What is your diagnosis.

- (A) Ate hemorrhage of Accident with in 30 minutes
- ☒ (B) Immune mediated hemolytic anemia
- (C) Polycythemia vera related crisis
- (D) Hodgkins-B lymphoma related crisis

189. Which one of the following chemical can cause conditional Iron deficiency?

- | | |
|---|-------------------------|
| <input checked="" type="checkbox"/> (A) Calcium carbonate | (B) Magnesium carbonate |
| (C) Potassium carbonate | (D) Aluminium carbonate |

190. Which of the following deficiency causes 40's falling license in cattle?

- | | |
|------------|--|
| (A) Cobalt | <input checked="" type="checkbox"/> (B) Copper |
| (C) Vit. A | (D) Vit. D |

191. Nodule formation in the intestine of sheep and goat is caused by
- (A) *Moniezia expansa*
 - (B) *Avitellina lahorea*
 - (C) *Stilesia hepatica*
 - ✓ (D) *Stilesia globipunctata*
192. 'Crisis phenomenon' in dogs is observed due to infection with
- (A) *Toxocara canis*
 - (B) *Trichuris vulpis*
 - ✓ (C) *Ancylostoma caninum*
 - (D) *Spirocerca lupi*
193. 'Morocco leather' appearance of abomasal mucosa is seen in sheep infected with
- ✓ (A) *Ostertagia ostertagi*
 - (B) *Haemonchus contortus*
 - (C) *Trichostrongylus colubriformis*
 - (D) *Trichuris ovis*
194. Lizard poisoning in cat is caused by
- ✓ (A) *Platynosomum fastosum*
 - (B) *Gnathosoma spinigerum*
 - (C) *Physaloptera* spp.
 - (D) *Toxocara cati*
195. The termatode which transmit the rickettial agent causing salmon poisoning is
- (A) *Opisthorchis viverrini*
 - (B) *Dicrocoelium dentriticum* (*D. dentriticum*)
 - ✓ (C) *Nanophyetus salmincola*
 - (D) *Clonorchis sinensis*

196. Fibrinous Peritonitis is commonly seen in
- (A) Feline leukaemia virus infection
 - ☒ (B) Feline infectious peritonitis
 - (C) Feline immunodeficiency virus infection
 - (D) Feline distemper
197. Atrophic rhinitis is commonly seen in
- (A) Horses
 - ☒ (C) Pigs
 - (B) Rabbits
 - (D) Dogs
198. Telangiectasis means
- (A) Dilatation of lymph vessel
 - ☒ (B) Dilatation of artery
 - (C) Dilatation of bronchus
 - (D) Dilatation of Sinusoids
199. Peripheral displacement of Nissl substance in neurons is called
- (A) Satellitosis
 - (B) Astrocytosis
 - ☒ (C) Chromatolysis
 - (D) Wallerian degeneration
200. Cellulitis means inflammation of
- (A) Epidermal cells of skin
 - (B) Dermis alone
 - ☒ (C) Dermis and subcutis
 - (D) Intracellular infiltration

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