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Previous Year Paper
Paper-II
17 Feb, 2019



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Booklet Serial No.

000085

Test Booklet Series

**TEST BOOKLET
VETERINARY ASSISTANT SURGEON - 2019
Code No. 31**

A

Time Allowed: Two Hours

Maximum Marks: 120

INSTRUCTIONS

1. IMMEDIATELY AFTER THE COMMENCEMENT OF THE EXAMINATION, YOU SHOULD CHECK THAT THIS TEST BOOKLET **DOES NOT** HAVE ANY UNPRINTED OR TORN OR MISSING PAGES OR ITEMS, ETC. IF SO, GET IT REPLACED BY A COMPLETE TEST BOOKLET.
2. Please note that it is the candidate's responsibility to encode and fill in the Roll Number and Test Booklet Series Code A, B, C or D carefully and without any omission or discrepancy at the appropriate places in the OMR Answer Sheet/Response Sheet. Any omission/discrepancy will render the Answer Sheet/Response Sheet liable for rejection.
3. You have to enter your Roll Number on the Test Booklet in the Box provided alongside. **DO NOT** write *anything else* on the Test Booklet.
4. This Test booklet contains 120 items (questions). Each item comprises of four responses (answers). You will select the response which you want to mark on the Answer Sheet/Response Sheet. In case you feel that there is more than one correct response, mark the response which you consider the best. In any case, choose **ONLY ONE** response for each item.
5. You have to mark all your responses **ONLY** on the separate Answer Sheet/Response Sheet provided. *See directions in the Answer Sheet/Response Sheet.*
6. **All** items carry equal marks.
7. Before you proceed to mark in the Answer Sheet/Response Sheet, the response to various items in the Test Booklet, you have to fill in some particulars in the Answer Sheet/Response Sheet as per instructions sent to you with your Admission Certificate.
8. After you have completed filling in all your responses on the Answer Sheet/Response Sheet and the examination has concluded, you should hand over to the Invigilator **only the Answer Sheet/Response Sheet**. You are permitted to take away with you the Test Booklet and **Candidate's Copy of the Answer Sheet/Response Sheet**.
9. Sheets for rough work are appended in the Test Booklet at the end.
10. While writing Centre, Subject and Roll No. on the top of the Answer Sheet/Response Sheet in appropriate boxes use "**ONLY BALL POINT PEN**".

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Test No. 31- (A)

SEAL



1. The causative agent of Black Quarter is

- Clostridium novyi*
- Clostridium septicum*
- Clostridium feseri (chauvoei)*
- None of the above

2. Intravenous administration of too rapid a fluid in case of anorexia linked with pneumonia may cause death due to

- Acute heart failure
- Kidney failure
- Cerebral dysfunction
- None of the above

3. A viral disease of cloven footed animals including cattle successfully eradicated from India is

- Rinderpest (Cattle plague)
- Bovine Malignant Catarrh
- Bovine Ephemeral fever
- Bovine papillomatosis

4. Antidote of xylazine, a popular immobilizing agent used either single or in combination with other drugs for a wide variety of wild species, is

- YohimbineHCl
- Xylocaine
- Diazepam
- None of the above

5. Tentatively, the period of quarantine for animal sector is

- 4 days
- 40 days
- 4 months
- None of the above

6. Malicious poisoning punishable under IPC section 428 and 429 include

- Toxemia
- Castration
- Arbusprecatorius*
- None of the above

7. Performance modifying substance used in race horses is a

- Stimulant
- Tranquillizer
- Bronchodilator
- All of the above

8. Site of inoculation in chicken vaccinated against Fowlpox may be examined for presence of 'take' reaction

- 2nd day after vaccination
- 7th day after vaccination
- 24 hours postvaccination
- 1 hour after vaccination

9. Coccidian infections in chicken are readily confirmed by

- Morbidity/mortality rate
- Serological tests
- Demonstration of oocysts in faeces and intestinal scrapings
- All of the above

10. Signs of inappetence, weakness, diarrhea, low egg production, emaciation along with enlarged bursa and/or liver in chicken aged 14-16 weeks commercial layers upto 2.0% population may lead to the suspicion of

- Ranikhet disease
- Marek's disease
- Avian leukosis
- All of the above

11. Failure of blood to clot and absence of rigor mortis are noticed in one of the following zoonotic diseases

- (A) Rabies
- (B) Anthrax
- (C) Leptospirosis
- (D) Tuberculosis

12. Minimal gestational age (days) for viability of lamb is

- (A) 120
- (B) 108
- (C) 138
- (D) 118

13. Vaccination of the newborn under 2 months of age has NOT been widely practiced because of the

- (A) Immature immune system
- (B) Poor protein status
- (C) Low body weight
- (D) Improper urinary output

14. Sepsis, usually associated with hypoglycemia, is an important cause of illness in neonates that can manifest as

- (A) Localized infection without systemic signs
- (B) Localized infection with systemic signs
- (C) Systemic signs without localized infection
- (D) All of the above

15. Farm animals are born agammaglobulinemic hence ingestion of colostrum within 4 hour of parturition is essential to confer

- (A) Natural passive immunity
- (B) Natural active immunity
- (C) Artificial active immunity
- (D) Artificial passive immunity

16. Which one of the following is NOT an anti-tubercular drug

- (A) Ethambutol
- (B) Isoniazide
- (C) Rifampcin
- (D) Oxclozanide

17. Vagus indigestion in cattle is predominantly characterized by

- (A) Pasty faeces with reduced bulk
- (B) Presence of mucus and blood in faeces
- (C) Frequent micturition
- (D) Watery faeces with increased frequency

18. Method used to eradicate bovine tuberculosis from one area is

- (A) Selective breeding policy
- (B) Medication with anti-tubercular drug
- (C) BCG vaccination to calves
- (D) Diagnosis through tuberculin test

19. Common route of Arsenic poisoning in farm animals is

- (A) Ingestion
- (B) Inhalation
- (C) Skin contact
- (D) Coitus

20. R₂B vaccine is given for protection to the chicken against
(A) Avian Influenza
(B) Marek's disease
(C) Ranikhet disease
(D) Infectious bursal disease

21. Clinical diagnosis of Hemorrhagic septicemia in endemic area is based on
(A) Lapses of vaccination
(B) Typical clinical signs
(C) Environmental condition
(D) All of the above

22. Central strategy for prevention and control of Marek's Disease is
(A) Test and slaughter
(B) Proper disposal of carcass
(C) Vaccination
(D) Chemoprophylaxis using antiviral drugs

23. Disease with the signs of emaciation, shedding of wool and presence of soft faces in sheep are characteristic features of
(A) Rinderpest
(B) Foot and Mouth Disease
(C) Hemorrhagic septicemia
(D) Johne's Disease

24. One of the following is a surfactant used as an antifoaming agent for treatment of ruminal tympany/bloat
(A) Calcium chloride
(B) Non-toxic mineral oil
(C) Magnesium sulfate
(D) None of the above

25. One of the condition noticed in cattle following recovery from FMD is
(A) Chorea
(B) Hairy panter
(C) Calcium cyler
(D) None of the above

26. Correlation among different measurements on a character in the life of an animal is called
(A) Repeatability
(B) Heritability
(C) Regression
(D) Variance

27. Proportion of phenotypic variance caused due to additive gene variance is
(A) Heritability
(B) Correlation
(C) Regression
(D) Response

28. Which of the following is not an assumption for Hardy - Weinberg equilibrium
(A) Large population
(B) Migration
(C) Mutation
(D) Variation

29. In a random mating population, the maximum heterozygosity is expressed when one of the gene frequency is
(A) 0.2
(B) 0.7
(C) 0.9
(D) 0.5

30. If a genotype is $AaBbCcDdEe$, then the number of unique gamets possible from the genotype is

- (A) 4
- (B) 8
- (C) 16
- (D) 3

31. Duplicate dominant epistasis in F_2 generation yields a phenotypic ratio of

- (A) 12:3
- (B) 13:3
- (C) 15:1
- (D) 9:7

32. Repeatability sets

- (A) An upper limit to heritability
- (B) A lower limit to heritability
- (C) An upper limit to inbreeding
- (D) A lower limit to heterosis

33. The ideal male to female ratio in flock mating of poultry is

- (A) 1:10
- (B) 1:20
- (C) 1:1
- (D) 1:15

34. When two or more breeds are used in a particular sequence on crossbred female population it is called

- (A) Criscrossing
- (B) Outcrossing
- (C) Rotational Crossing
- (D) Test crossing

35. The reverse of heterosis is

- (A) Inbreeding coefficient
- (B) Epistasis
- (C) Breeding Value
- (D) Inbreeding depression

36. The organ of an apparently healthy cattle that shed *Pasteurellamultocida* serotype B2 during period of stress, is

- (A) Tonsil
- (B) Urinary bladder
- (C) Vagina
- (D) Mammary gland

37. Heterosis is caused due to

- (A) Inbreeding
- (B) Assortative mating
- (C) Non-additive effect of genes
- (D) Additive effect of genes

38. Maximum number of traits which can be considered in a selection index programme with better effect is

- (A) 20
- (B) 10
- (C) 3
- (D) 4

39. Mating of a purebred sire of a desirable breed to non descript female is called

- (A) Crossbreeding
- (B) Upgrading
- (C) Top crossing
- (D) Test crossing

40. Inbreeding coefficient of an individual produced from parent offspring is
(A) 0.25
(B) 0.50
(C) 0.025
(D) 0.80

41. Homozygotes of identical genes are called
(A) Allozygous
(B) Codominant
(C) Autozygous
(D) Pheomaline

42. General combining ability calculated in a diallel mating is indicative of
(A) Overdominance
(B) Epistasis
(C) Non-additive genetic effect
(D) Additive genetic effect

43. Traits having low h^2 can be improved through
(A) Family selection
(B) Individual selection
(C) Combined selection
(D) Tandem method of selection

44. Response to selection depends on
(A) Intensity
(B) Correlation
(C) Regression
(D) Inbreeding

45. If h^2 value of a trait is 0.5; selection differential value is 25; generation interval is 2.5 years, then the response per year will be
(A) 12.5
(B) 31.25
(C) 5
(D) 7.5

46. Which of the following is not a function of testosterone?
(A) Production of sperm in the testis
(B) Maturation of sperm in the epididymis
(C) Function of the accessory sex glands
(D) Aromatize testosterone into oestrogens

47. The main constituent of ampullary secretion in the stallion is
(A) Citrate
(B) Ergothioneine
(C) Fructose
(D) Inositol

48. Vesicular glands secretion in boar is rich in
(A) Citrate and fructose
(B) Citrate and inositol
(C) Ergothioneine and Citrate
(D) Ergothioneine and inositol

49. Immotile spermatozoa due to perturbation of genesis of flagellum representing loose coils of spermatozoa is termed as
(A) Dag defect
(B) Cork screw defect
(C) Diadem defect
(D) Annular defect

50. Typical 'rage' reaction during dismounting of male is the copulatory behavior commonly found in
(A) Cow
(B) Bitch
(C) Mare
(D) Cat

51. The collection period for digestibility trial of large ruminant should be
(A) 7-10 days
(B) 10-14 days
(C) 5-7 days
(D) 20-22 days

52. Effect of chaffing of roughages
(A) Increases intake
(B) Prevent selection of animal
(C) Reduces energy expenditure in mastication
(D) All of the above

53. The digestibility of forage depends upon
(A) Variety
(B) Fertilization
(C) Stage of maturity
(D) All of the above

54. In determining the digestibility by *in situ* method, the feed materials are kept in
(A) Rumen
(B) Abomasum
(C) Small intestine
(D) Any part of the gastro intestinal tract

55. In the two stage technique of *in vitro* digestibility, the second stage simulates
(A) Microbial digestion
(B) Enzymatic digestion
(C) Fermentative digestion
(D) All of the above

56. Cannibalism in poultry can be due to deficiency of
(A) Sodium
(B) Potassium
(C) Sulphur
(D) Chloride

57. Who developed the starch equivalent value of feed
(A) Atwater
(B) Morrison
(C) Armsby
(D) Kellner

58. Which one of the following does not serve as a source of phosphorous for the animals
(A) Bone meal
(B) Meat meal
(C) Lime stone
(D) Wheat bran

59. Higher RQ value is found with
(A) Carbohydrate
(B) Fat
(C) Protein
(D) Minerals

60. Ascorbic acid cannot be synthesized by
(A) Human being
(B) Guinea pig
(C) Primates
(D) All of the above

61. Which of the following is a dual breed of cattle
(A) Red sindhi
(B) Haryana
(C) Sahiwal
(D) Amritmahal

62. Rate of feeding colostrums to a newly born calf is
(A) $1/5^{\text{th}}$ of body wt.
(B) $1/10^{\text{th}}$ of body wt.
(C) $1/15^{\text{th}}$ of body wt.
(D) $1/20^{\text{th}}$ of body wt.

63. Crude protein percentage of growing/finishing ration is
(A) 10-12
(B) 14-16
(C) 18-20
(D) None of the above

64. The hormone responsible for letdown of milk is
(A) Adrenaline
(B) Oxytocin
(C) Prolactin
(D) ACTH

65. Malabari breed of goat originates in the state of
(A) Orissa
(B) Jharkhand
(C) Kerala
(D) Andhrapradesh

66. The removal of wool from the belly of ram in the region of penis is known as
(A) Clipping
(B) Ringing
(C) Crutching
(D) Tagging

67. Flushing can improve lambing rate by
(A) 15-25%
(B) 5-10%
(C) 40-50%
(D) None of the above

68. The strain developed at CSWRI by crossing Rambouillet on Chokla and Nali sheep is
(A) Avivastra
(B) Abhimanas
(C) Abhikalin
(D) Kheri

69. The removal of soiled wool from sheep's hind quarter is called
(A) Dodding
(B) Ringing
(C) Tagging
(D) Shearing

70. The original home tract of Sannen breed is
(A) USA
(B) Switzerland
(C) Turkey
(D) England

71. Which of the following is a milch breed of goat
(A) Beetal
(B) Chegu
(C) Ganjam
(D) Assam Hill

72. Hybrid napier is a
(A) Legume
(B) Grass
(C) Root
(D) Tree leave

73. Calving interval is equal to
(A) Lactational length + Dry period + Service period
(B) Service period + Gestation period
(C) Gestation period + Dry period
(D) Service period + Lactation period

74. The most important economic trait taken into account while selecting a dairy cow is
(A) Age at first estrus
(B) Lactational yield
(C) Dry period
(D) Intercalving period

75. Practice of feeding concentrate during the last quarter of pregnancy is termed as
(A) Steaming up
(B) Flushing
(C) Challenge feeding
(D) Complete feeding

76. Development of ropiness in milk may be due to infection of
(A) *Salmonella enterica*
(B) *Brucella abortus*
(C) *Alcaligenes viscolactis*
(D) *Pseudomonas spp.*

77. Artificial insemination technique in cattle was first introduced in India by
(A) P Bhattacharya
(B) S N Luktuke
(C) Sampat Kumaran
(D) Ivanov

78. Bifidus factor is present in milk of
(A) Cow
(B) Buffalo
(C) Goat
(D) Human

79. The condition in which fetal bones crepitate within uterus on rectal examination of a pregnant cow
(A) Mummification
(B) Maceration
(C) Hydroallantois
(D) Hydroamnios

80. LP system is related with
(A) Cleaning of dairy utensils
(B) Packaging of milk and milk products
(C) Germicidal property of milk
(D) Transportation of milk

81. Psychrophilic organism grows at
(A) 35-37°C
(B) 40-45°C
(C) 22-27°C
(D) -20°C

82. UHT stands for
(A) Ultra Heating Technique
(B) Ultra High Temperature
(C) Ultra Humid Temperature
(D) None of the above

83. Bacteriophages are
(A) Bacteria
(B) Virus
(C) Fungi
(D) Parasites

84. The first veterinary school was established in
(A) US
(B) India
(C) France
(D) Italy

85. Virus transmitted through milk of goat infected with
(A) Tick borne taphus
(B) CCPP
(C) Rota virus
(D) None of the above

86. A delayed somatic effect of radiation is
(A) Point mutation
(B) Leukemia
(C) Radiation sickness
(D) Chromosome mutation

87. The most efficient method of reducing the organic matter in the sewage is
(A) Aerobic process
(B) Anaerobic process
(C) Both aerobic and anaerobic processes
(D) None of the above

88. The radioactive isotope which has got the half life of about 30 years is
(A) Cesium 137
(B) Carbon 14
(C) Strontium 90
(D) Iodine 131

89. Biodegradable organic matter in water indicate the presence of
(A) Inorganic impurities
(B) Organic impurities
(C) Gaseous impurities
(D) None of the above

90. The existence of dead or decaying animal matter in the water is indicated by the presence of
(A) Ammonia
(B) Calcium carbonate
(C) Sodium sulphate
(D) Magnesium carbonate

91. Torch test is associated with
(A) Tuberculosis
(B) Toxoplasmosis
(C) Typhoid
(D) None of the above

92. Cutaneous larva migrans is an example of
(A) Sapro-anthropozoonosis
(B) Sapro-amhixebnisis
(C) Sapro-meta-anthropozoonosis
(D) None of the above

93. Darling disease is otherwise known as
(A) Histoplasmosis
(B) AIDS
(C) Scarlet fever
(D) None of the above

94. Zoonosis due to animal organ transplantation is
(A) Xenozoonosis
(B) Anthropozoonosis
(C) Amphixenosis
(D) None of the above

95. Zoonotic disease frequently associated with bird and bat habitats
(A) Rabies
(B) Histoplasmosis
(C) Anisakisasis
(D) None of the above

96. Bull Sperm sexing can be done by
(A) Spectrophotometer
(B) Bovine Photometer
(C) Electron microscope
(D) Flow cytometer

97. Which of the following is usually transmitted venereally in cow
(A) Brucellosis
(B) Aspergillosis
(C) Tuberculosis
(D) Trichomoniasis

98. Double dose of prostaglandin is usually given in synchronization protocol in dairy cow
(A) 10 days apart
(B) 11 days apart
(C) 21 days apart
(D) 7 days apart

99. Which of the following is not a method of pregnancy diagnosis in animals?
(A) Ultrasonography
(B) Radiography
(C) Angiography
(D) Cuboni Test

100. Which of these two hormones are produced from placenta in some of the species
(A) Relaxin and lactogen
(B) Progesterone and estrogen
(C) hCG and PGE₂
(D) All of the above

101. Match the List-I (Pass) with List-II (State) and choose the correct answer from the codes given below:

List - I (Pass)	List - II (State)
a) Nathula	i) Jammu and Kashmir
b) Shipkila	ii) Sikkim
c) Burzil	iii) Arunachal Pradesh
d) Bomdila	iv) Himachal Pradesh

(A) a-ii, b-i, c-iii, d-iv
(B) a-iv, b-ii, c-iii, d-i
(C) a-ii, b-iv, c-i, d-iii
(D) a-iii, b-ii, c-iv, d-i

102. Sandalwood trees are found in

- (A) Tropical evergreen forest
- (B) Tropical thorn forest
- (C) Tropical deciduous forest
- (D) Montane forest

103. In which of the following species does the male have mammary glands to feed milk to its young?

- (A) Sunda Flying Lemur
- (B) Blue Whale
- (C) Dayak Fruit Bat
- (D) Polar Bear

104. The waves used in common TV remote control are

- (A) X-Rays
- (B) Ultra-violet Rays
- (C) Infra red Rays
- (D) Gamma Rays

105. Random Access Memory (RAM), a form of computer storage, is a _____ memory

- (A) Non-volatile
- (B) Volatile
- (C) Permanent
- (D) Secondary

106. In humans trisomy of chromosome number 21 is responsible for

- (A) Haemophilia
- (B) Klinefelter syndrome
- (C) Turner syndrome
- (D) Down syndrome

107. Who among the following is first Lokpal of India

- (A) P.N. Bhagwati
- (B) P.C. Ghosh
- (C) D.K. Jain
- (D) Dalbir Bhandari

108. India's first fully organic state is

- (A) Arunachal Pradesh
- (B) Kerala
- (C) Rajasthan
- (D) Sikkim

109. Kadaknath chicken meat which recently received Geographical Indication (GI) is associated with

- (A) West Bengal
- (B) Rajasthan
- (C) Madhya Pradesh
- (D) Uttar Pradesh

110. India was declared free from trachoma which is a _____ infection of the eye
(A) Bacterial
(B) Viral
(C) Fungal
(D) Auto Immune

111. Mission Shakti is related with
(A) Women Empowerment
(B) Anti-Satellite weapon
(C) Nuclear energy
(D) Support for divyaangs

112. Which of the following gas is found in least amount in the atmosphere
(A) Ozone
(B) Helium
(C) Hydrogen
(D) Neon

113. As per 2011 census, which among the following states registered highest literacy rate?
(A) Jammu and Kashmir
(B) Arunachal Pradesh
(C) Rajasthan
(D) Uttar Pradesh

114. The Project Snow Leopard to conserve the endangered species, launched by the union ministry of environment and forests covers the states of
(A) Jammu and Kashmir and Himachal Pradesh only
(B) Jammu and Kashmir, Himachal Pradesh and Uttarakhand only
(C) Jammu and Kashmir, Himachal Pradesh, Uttarakhand and Arunachal Pradesh only
(D) Jammu and Kashmir, Himachal Pradesh, Uttarakhand, Arunachal Pradesh and Sikkim

115. The release of which one of the following into ponds and wells helps in controlling the mosquitoes?
(A) Crab
(B) Dogfish
(C) Gambusia fish
(D) Snail

116. Nagoya Protocol is related to
(A) Climate change
(B) Ozone depletion
(C) Hazardous waste
(D) Biodiversity

117. Which of the following rights was considered the “Heart and Soul” of the Indian constitution by Dr. B.R.Ambedkar?
(A) Freedom of speech
(B) Right to equality
(C) Right to freedom of religion
(D) Right to constitutional remedies

118. Recipient of Rajiv Gandhi Khel Ratna award-2018 Saikhom Mirabai Chanu is associated with
(A) Wrestling
(B) Weightlifting
(C) Badminton
(D) Shooting

119. RERA is a regulatory body for
(A) Telecommunication
(B) Real Estate
(C) Insurance
(D) Banking

120. Who appeared as a state guest for honor for republic day 2019-
(A) Cyril Ramaphosa
(B) Hun Sen
(C) Sultan Hassanal Bolkiah
(D) Sheikh Mohammed Bin Zayed Al Nahyan