

MIZORAM PUBLIC SERVICE COMMISSION
TECHNICAL COMPETITIVE EXAMINATIONS FOR
VETERINARY ASSISTANT SURGEON UNDER ENVIRONMENT, FORESTS AND
CLIMATE CHANGE DEPARTMENT, GOVERNMENT OF MIZORAM,
AUGUST-2024

AH & VETY PAPER-I

Time Allowed : 2 hours

FM : 200

All questions carry equal marks of 2 each.

Attempt all questions.

1. A society in which the primary means of subsistence is domesticated livestock is called -
(a) Hunter-gatherer Society (b) Industrial Society
(c) Agrarian Society (d) Pastoralist Society
2. The terms 'genotype', 'phenotype' and 'gene' were coined by -
(a) W Bateson (b) W. Johannsen
(c) Mendel (d) Darwin
3. An entrepreneur who creates and implements new ideas, products or services is known as -
(a) Innovative Entrepreneur (b) Drone Entrepreneur
(c) Imitative Entrepreneur (d) Fabian Entrepreneur
4. The inbreeding coefficient of an individual born to half-sib mating is -
(a) 0.75 (b) 0.50
(c) 0.25 (d) 0.125
5. The basis for formation of a new breed of cattle is -
(a) Outcrossing (b) Crossbreeding
(c) Grading up (d) Species hybridization
6. Which of the pair of animals has the same chromosome numbers?
(a) Sheep and goat (b) Cattle and Mithun
(c) Cattle and Yak (d) Yak and Buffalo
7. Mannan oligosaccharide is used in poultry feed as -
(a) Probiotic (b) Prebiotic
(c) Antibiotic (d) Acidifier
8. Chemically the DNA molecule is comprised of a series of -
(a) Nucleosides (b) Nucleotides
(c) Proteins (d) Fats
9. Which among the followings is not a proximate principle?
(a) Crude protein (b) Calcium
(c) Ether extract (d) Nitrogen free extract
10. The amount of decrease in heterosis shown by F_2 over that of F_1 is -
(a) One half (b) One fourth
(c) Double (d) Same

11. Which breed of goat is well known for its prolificacy?
(a) Sirohi (b) Black Bengal
(c) Jamunapari (d) Beetal
12. When did Agricultural Technology Management Agency (ATMA) scaled throughout the country?
(a) 1998 (b) 2005
(c) 2007 (d) 2009
13. What is referred to for the 'good live livestock management and general supervision including housing, hygiene, sanitation and care of animals' at the farm?
(a) Seeding (b) Heeding
(c) Sanitation (d) Weeding
14. Which is the state having largest pig population as per 20th Livestock Census:
(a) Assam (b) Utter Pradesh
(c) Bihar (d) West Bengal
15. As per latest FSSAI, the percentage of fat and SNF content in double toned milk should be -
(a) 1.3 % and 8.5% (b) 1.3 % and 9.0%
(c) 1.5 % and 8.5% (d) 3.0 % and 9.0%
16. Which among the following is a pashmina producing goat?
(a) Black Bengal (b) Changthangi
(c) Ganjam (d) Sirohi
17. In which of the following stages of cell division, the DNA content is doubled?
(a) Interphase (b) Prophase
(c) Metaphase (d) Anaphase
18. Breed Development of Livestock and poultry, Feed and fodder development, Innovation and Extension are the integral part of which of the following livestock developmental programme?
(a) National Livestock Insurance Scheme
(b) National Animal Diseases Control Programme
(c) Gosadan
(d) National Livestock Mission
19. The attributes Hue, Chroma and Value describe -
(a) Flavour (b) Texture
(c) Juiciness (d) Colour
20. Haugh Index is used to determine the internal quality of -
(a) Milk (b) Meat
(c) Paneer (d) Egg
21. The bright red colour development in fresh meat is known as -
(a) Gloom (b) Cherry
(c) Bloom (d) Sheen
22. Deficiency of Thiamin in poultry results -
(a) Curled toe paralysis (b) Star gazing posture
(c) Exudative diathesis (d) Slipped tendon
23. On all roughage diet the dominant volatile fatty acid in cattle is -
(a) Acetic acid (b) Butyric acid
(c) Propionic acid (d) Formic acid

24. Physical damage caused by slow freezing results in great loss of fluid from meat when it is thawed and is called as -
(a) Weep (b) Shrink
(c) Leak (d) Drip
25. The ice-cream contains min. _____ milk fat (%wt).
(a) 7.0 (b) 15.0
(c) 5.0 (d) 10.0
26. Which of the following is protein supplement for livestock?
(a) Cereals (b) Cereal byproducts
(c) Non-leguminous roughages (d) Oilcakes
27. 'Thumps' in pigs occurs due to deficiency of -
(a) Copper (b) Iron
(c) Cobalt (d) Manganese
28. Tyrosine value estimates the extent of _____ breakdown in meat.
(a) Fatty acids (b) Protein
(c) Carbohydrate (d) Vitamin
29. If four calves are born on a given day, what is the chance that all four will be female?
(a) 1/16 (b) 1/8
(c) 1/4 (d) 1/2
30. *Leucaena leucocephala* contains anti nutritional factors as -
(a) Oxalate (b) Gossypol
(c) Glucosinolates (d) Mimosine
31. Genetically, the improvement through selection is brought about in population by bringing a change in -
(a) Genotype frequency (b) Phenotype frequency
(c) Gene frequency (d) Phenotypic variance
32. The study of statistical procedures that deal with the collection, organization, graphical representation and processing or summarization of data to make it informative and comprehensive is called -
(a) Applied statistics (b) Inferential statistics
(c) Informative statistics (d) Descriptive statistics
33. The Warner -Bratzler Shear Force test is used to detect _____ of meat.
(a) Texture (b) Flavour
(c) Protein (d) Fat
34. The Geometric mean (GM) and Arithmetic mean (AM) of a variable is 27 and 30 respectively. Its Harmonic mean (HM) will be -
(a) 25.0 (b) 24.3
(c) 24.8 (d) 28.3
35. Animals are selected for breeding on the basis of all the following characteristics except:
(a) Mammary system and udder (b) Ratio of yield to diet
(c) Having long ears (d) Disease resistance
36. Which test is used to compare more than two sample means?
(a) F-test (b) Z-test
(c) t-test (d) Chi square test
37. Maximum intra muscular fat is present in which meat?
(a) Pork (b) Chevon
(c) Mutton (d) Chicken

38. Each muscle fiber is covered by -
(a) Perimysium (b) Epimysium
(c) Endomysium (d) Fascia
39. Which type of sex chromosomes is found in female chicken?
(a) XX (b) ZX
(c) ZZ (d) ZW
40. The word communication originates from the Latin word 'Communis' which means -
(a) Common (b) Language
(c) Co-operation (d) Co-ordination
41. The chicken breed known for its black colour meat, comb and wattles is -
(a) Kadaknath (b) Naked Neck
(c) Kalasthi (d) Aseel
42. Indian Grassland and Fodder Research Institute (IGFRI) of ICAR is located in -
(a) New Delhi (b) Bangalore
(c) Hyderabad (d) Jhansi
43. The crossbreeding involving Holstein Friesian with Tharparkar was done to develop -
(a) Karan Fries (b) Karan Swiss
(c) Frieswal (d) Sunandini
44. The practice of mating animals within the same breed but having no common ancestor on either side of their pedigree up to 4-6 generations is -
(a) Cross breeding (b) Out-crossing
(c) Incrossing (d) Line breeding
45. Which traits shows the maximum amount of heterosis?
(a) Reproduction traits (b) Growth traits
(c) Carcass traits (d) Wool traits
46. Which of the following are not methods of individual communications?
(a) Farm & home visit (b) Office calls & telephone calls
(c) Personal letters (d) Field trips
47. The ideal ratio of cows and buffaloes in milk to dry is -
(a) 65:35 in buffaloes and 75:25 in crossbred cows
(b) 50:50 in buffaloes and 60:40 in crossbred cows
(c) 75:25 in buffaloes and 65:35 in crossbred cows
(d) 60:40 in buffaloes and 50:50 in crossbred cows
48. If you have to select pigs for their carcass qualities, which basis of selection would you use?
(a) Individual selection (b) Pedigree selection
(c) Sib selection (d) Progeny testing
49. Mixing time required for mixing mash type of feeds in a horizontal mixer is -
(a) 3 – 5 minutes (b) 10 – 15 minutes
(c) 20 – 30 minutes (d) Less than one minute
50. Gross energy (GE) content of methane (CH_4) is _____ kcal/gm.
(a) 2.53 (b) 3.61
(c) 4.23 (d) 13.34
51. Deficiency of salt in poultry leads to -
(a) Stunted growth (b) Low hatchability
(c) Low egg yield (d) Feather picking and cannibalism

52. Ability of a gene to have multiple phenotypic effect is called -
(a) Pleiotropy (b) Polygenic inheritance
(c) Over dominance (d) Multiple allelism
53. The diagrammatic representation of karyotype of a species is called -
(a) Karyotyping (b) Idiogram
(c) Ecogram (d) Chromogram
54. The software used in statistical operations of data is -
(a) Microsoft word (b) Microsoft Excel
(c) Microsoft powerpoint (d) Microsoft office
55. The ABCs of Journalism are -
(a) Accuracy, Brevity and Clarity (b) Accuracy, Body language and Clarity
(c) Accuracy, Brevity and Credibility (d) Accuracy, Body language and Credibility
56. Krishi Vigyan Kendra are sponsored by -
(a) UGC (b) IARI
(c) ICAR (d) State Government
57. Sociology studies the behaviour of -
(a) Human (b) Society
(c) Community (d) Race
58. Which ICT project become a model for dairy development project in India?
(a) AMUL (b) PARAG
(c) VISAKHA (d) Namestey India
59. MOOC stands for -
(a) Media Open Online Course (b) Massive Open Online Course
(c) Maximum Open Online Center (d) Microsoft Open Online Course
60. Who is known as Father of green revolution in India?
(a) Jagjivan Ram (b) C Subramaniam
(c) Norman Borlaug (d) M.S. Swaminathan
61. Scientific name of Berseem:
(a) *Trifolium alexandrinum* (b) *Medicago sativa*
(c) *Vigna unguiculata* (d) *Sorghum bicolor*
62. Which of the following scheme provides education to girls and their welfare?
(a) One Stop Centre Scheme (b) Beti Bachao Beti Padhao Yojana
(c) UJJAWALA scheme (d) SWADHAR Scheme
63. Newly born piglet feel comfortable when temperature remains between -
(a) 24°C to 26°C (b) 26°C to 28°C
(c) 28°C to 30°C (d) 32°C to 34°C
64. Wildlife Protection Act was enacted by Indian Parliament in -
(a) 1970 (b) 1972
(c) 1973 (d) 2006
65. The required C/N ration in biogas plant is around -
(a) 60:1 (b) 80:1
(c) 50:1 (d) 30:1
66. Equivalent Livestock Unit (LU) of cattle above 3 years age.
(a) 0.65 LU (b) 1.00 LU
(c) 1.25LU (d) 1.5 LU

67. Which one of the following is a popular fine wool breed of sheep from Spain?
(a) Rambouillet (b) Lincoln
(c) Merino (d) Southdown
68. BIS (2007) recommended calcium requirement in the diet of layer bird (Phase-I).
(a) 1.0% (b) 2.0%
(c) 3.0% (d) 4.0%
69. Size of fat globules in the milk is reduced by the process of -
(a) Pasteurization (b) Sterilization
(c) Standardization (d) Homogenization
70. The following breed of buffalo is known to have highest fat % in milk.
(a) Bhadawari (b) Murrah
(c) Nilli-Ravi (d) Jaffarabadi
71. Best Method for selection of leaders is -
(a) Sociometry (b) Election
(c) Discussion method (d) Key informants
72. Monosodium Glutamate(MSG) is used in meat products as -
(a) Emulsifier (b) Binder
(c) Filler (d) Flavouring agent
73. The toll free number of Kisan call Centre is -
(a) 1800-180-1551 (b) 1800-180-1651
(c) 1800-180-1552 (d) 1800-180-1652
74. Venison is meat of -
(a) Cattle (b) Monkey
(c) Horse (d) Deer
75. During smoking, which of the following compound formed may act as carcinogenic?
(a) Phenol (b) Aldehyde
(c) Polycyclic aromatic hydrocarbons (d) Met-haemoglobin
76. PSE (Pale, Soft Exudative) meat has _____ kind of water holding capacity.
(a) Low (b) High
(c) Medium (d) Variable
77. The dental formula of adult pig is -
(a) 3133/3133 (b) 0033/4033
(c) 3131/3121 (d) 3143/3143
78. Farming in which, crop production is combined with livestock production is known as -
(a) Mixed farming (b) Specialized farming
(c) Extensive farming (d) Diversified farming
79. The steps in extension teaching could be better explained with -
(a) AIDCAS (b) POSDCORB
(c) MANAGE (d) AIETA
80. Feeding of extra quantity of concentrate feed about two weeks before calving to enable cow produce maximum milk later, is known as -
(a) Flushing (b) Grooming
(c) Squeezing (d) Steaming up

81. Which of the following day is celebrated as World Environment day?
(a) 15th June (b) 5th July
(c) 15th July (d) 5th June
82. Green fodder to be ensiled should have dry matter between -
(a) 50 to 60% (b) 30 to 35%
(c) 20 to 25% (d) 15 to 20%
83. Which of the following vitamin has beneficial role in management of ketosis in dairy cows?
(a) Thiamine (b) Pantothenic acid
(c) Niacin (d) Pyridoxine
84. What should be the optimum floor space area requirement (covered and open space respectively) for a dairy cow?
(a) 1.5 m² and 3.5 m² (b) 3.5 m² and 7.0 m²
(c) 5.5 m² and 9.0 m² (d) 7.5 m² and 9.0 m²
85. The most stable component of milk in terms of its quantity.
(a) Protein (b) Fat
(c) Lactose (d) Solid -not -fat
86. Stable pink colour of cured meat products is due to -
(a) Myoglobin (b) Oxymyoglobin
(c) Met-myoglobin (d) Nitrosylhemochrome
87. The temperature in the incubator for hatching purpose should be maintained at -
(a) 97-98°F (b) 98-99°F
(c) 99-100°F (d) 100-102°F
88. The hormone responsible for "let down" of milk is -
(a) Growth hormone (b) Parathyroid hormone
(c) Oxytocin (d) Insulin
89. Best time to inseminate a cow is in the -
(a) Early estrus (b) Mid estrus
(c) Late estrus (d) Met estrus
90. Among all the climatic parameters, which parameter has remained almost unchanged since ages?
(a) Photoperiod (b) RH
(c) Air temperature (d) Precipitation
91. The optimum concentration of CO₂ gas in stunning of pigs is -
(a) 20% (b) 50%
(c) 70% (d) 90%
92. CP content of the feed is 10% & digestibility of CP is 80%. The DCP content of the feed is -
(a) 0.08% (b) 0.8%
(c) 8.0% (d) 0.008%
93. 'Stringy' or 'Steely' wool which lacks in 'crimp' results due to the deficiency of -
(a) Sulphur (b) Copper
(c) Manganese (d) Iodine
94. Maximum permissible crude fibre (CF) in broiler starter diet as per BIS, 2007.
(a) 2.5 % (b) 5.0 %
(c) 7.0 % (d) 9.0 %

95. Baby elephants are intolerant to cow milk due to difference in -
(a) Amino acid composition (b) Fatty acid composition
(c) Vitamin composition (d) Lactose content
96. Average daily feed intake of a laying hen.
(a) 80.0 gm (b) 110.0 gm
(c) 230.0 gm (d) 300.0 gm
97. In very good silage, pH ranges from -
(a) 4.8-6.0 (b) 4.2-4.8
(c) 3.8-4.2 (d) 2.3-3.5
98. Which animal has shortest pregnancy period?
(a) Pig (b) Cattle
(c) Goat (d) Horse
99. After Independence, first organized attempt in India to develop cattle on an effective scale with the launch of -
(a) ICDP (b) IDDP
(c) TMDP (d) KVS
100. Community Development Programme (CDP) was launched in the year -
(a) 1st April, 1951 (b) 2nd October, 1952
(c) 15th August, 1953 (d) 2nd October, 1954

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