

KAS (P) Examination, 2009
ANIMAL HUSBANDRY & VET. SCIENCE

[02]

Time Allowed : Two Hours]

[Max. Marks : 300

1. The colostrums feed to new born calf provides immunity because of which content
(a) Serum Albumin
(b) Casein
(c) Lacto globulins
(d) Gamma globulins
2. The sugar content of cow and buffalo milk ranges
(a) 2-3% (b) 6-7%
(c) 4-5% (d) 3-4%
3. *Pasteurella multocida* is a causative agent of which disease ?
(a) T. B. (b) Cowpox
(c) Rinderpest (d) H.S.
4. Which breed of cattle is originated from Pakistan?
(a) Kankrej (b) Malvi
(c) Sahiwal (d) Mewati
5. Which animal possesses testes always intra abdominal ?
(a) Elephant
(b) Camel
(c) Leopard
(d) Tom cat
6. In calculation of T.D.N. which nutrient is multiplied by 2.25
(a) Digestible -Ether Extract
(b) Digestible Crude Protein
(c) Digestible Crude Fiber
(d) Digestible N.F.E
7. The colostrum is rich in which vitamin ?
(a) Vitamin 'A' (b) Vitamin 'B'
(c) Vitamin 'E' (d) Vitamin 'K'
8. Cattle Plague is the common name of which cattle disease ?
(a) Anthrax
(b) Black Quarter
(c) Mastitis
(d) Rinderpest
9. Feeding extra concentrate to pregnant sheep is known as
(a) Flushing
(b) Holding
(c) Steaming-up
(d) Lean Grazing
10. The system of housing cattle which costs less, saves labour and provides more comfort to the animals is
(a) Tail to tail system
(b) Face to face system
(c) Loose housing system
(d) Single flow arrangement

- SEAL**
11. The value which can be computed as the regression of future performance on past performance is called
(a) Realized heritability
(b) Heritability
(c) Repeatability
(d) Breeding value
12. Which affection cause Impotentia coendi in bull?
(a) Gonitis
(b) Testicular hypoplasia
(c) Scrotal hernia
(d) Cryptorchidism
13. Casein is precipitated from milk at which PH
(a) 4.4 (b) 4.6
(c) 4.8 (d) 6.6
14. The cow milk is generally richer than buffalo milk in
(a) Fat (b) Carotene
(c) Minerals (d) Proteins
15. Which structures participate in testis thermoregulation?
(a) Spermatic cord
(b) Scrotum
(c) Pampiniform plexus
(d) Both (b) and (c)
16. Fat in milk is present in which of the following form?
(a) Colloidal
(b) Solution
(c) Emulsion
(d) None of the above
17. The constituent found only in milk
(a) Casein
(b) Minerals
(c) Carotene
(d) Proteins
18. Which test is related to sperm metabolic activity?
(a) Fructolytic index
(b) Methylene blue reduction
(c) Resazurin test
(d) All of the above
19. The fat percentage is maximum in
(a) Fore milk
(b) Middle milk
(c) Stripping
(d) Separated milk
20. What is the nature of milk sugar?
(a) Monosaccharide
(b) Disaccharide
(c) Oligosaccharide
(d) Polysaccharide
21. In trichomonal pyometra the character of the pus is
(a) Greenish
(b) Light blue with blood tints
(c) Thin yellow flocculent
(d) Thick mucopurulent
22. Which of the following is associated with heritability?
(a) Correlation of breeding value and phenotypic value
(b) Regression of phenotypic value on breeding value
(c) Regression of breeding value on phenotypic value
(d) None of the above

23. The most variable constituent of milk is
- Casein
 - Fat
 - Lactose
 - Minerals
24. The sum of gene frequency is
- Equal to 1
 - Higher than 1
 - Lower than 1
 - Always zero
25. A population cannot be Hardy and Weinberg equilibrium if it is
- Open
 - Mutating
 - Small
 - All of the above
26. The main carbohydrate of cow milk is
- Glucose
 - Fructose
 - Lactose
 - Sucrose
27. Which treatment is advocated to cases of hydroallantois ?
- Lutalyse
 - Chorulone
 - Ovo-check
 - None of the above
28. Dahi is a milk product in the category of
- Concentrated product
 - Fermented product
 - Coagulated product
 - Frozen product
29. The milk fat is rich in
- Fat soluble vitamins
 - Water soluble vitamins
 - Soluble minerals
 - Soluble proteins
30. The main source of sperm cell antiagglutinins in bovine semen is
- Prostate gland
 - Bulbourethral gland
 - Seminal gland
 - Cowper's gland
31. According to P.F.A act chhana should contain fat not less than
- 25%
 - 30%
 - 50%
 - 60%
32. The proportion of sex linked gene in a population is
- Higher in heterogametic sex
 - Higher in homogametic sex
 - Equal in both sexes
 - None of the above

- SEAL**
33. By homogenization of milk the size of fat is reduced to below
- 4 micron
 - 5 micron
 - 2 micron
 - 1 micron
34. Which is not transmitted to next generation ?
- Genetic variance
 - Interaction variance
 - Environment variance
 - None of the above
35. Epidosin used for dilation of cervix contains
- Vel ethamate bromide
 - Ergomine
 - Estrone sulphate
 - None of the above
36. Cheddar and cottage are the names of
- Ice cream
 - Cheese
 - Ghee
 - Milk powder
37. If mated individuals are phenotypically alike then the mating is known as
- Assortative mating
 - Dissortative mating
 - Random mating
 - None of the above
38. Milk fat is easily separated from r because it is
- higher than other constituents
 - Not uniformly mixed in milk
 - More specific gravity
 - Less surface tension
39. Which of the following is used express fitness?
- Adaptive value
 - Selective value
 - Both (a) and (b)
 - None of the above
40. Buffalo milk is not yellowish because contains
- More fat
 - No lactose
 - More calcium
 - No carotene
41. In which disease the causative agent is twisted, flexible and takes silver impregnant stain ?
- Anthrax
 - Glander
 - Listeriosis
 - Leptospirosis
42. The successful storage and shipment of bovine semen at room temperature is possible in
- EYC diluent
 - Coconut milk extender
 - Glycine diluent
 - Phosphate egg yolk extender

43. The most popular fine wool breed of sheep in the world is
 (a) Merino (b) Cheviot
 (c) Rambulet (d) Karakul
44. The virulent strain of *E.coli* for calf is
 (a) K88+
 (b) K99
 (c) C99
 (d) Both (a) and (b)
45. In which disease, the diarrhoea occurs but it does not have foul smell?
 (a) John's disease
 (b) Tuberculosis
 (c) Anthrax
 (d) Rinderpest
46. Which does not belong to the metallic class of irritant poisons?
 (a) Croton oil (b) Copper
 (c) Arsenic (d) Mercury
47. Mark the most appropriate sign of acute arsenic poisoning in animals
 (a) Grinding of teeth
 (b) Subnormal body temperature
 (c) Paralysis
 (d) None of the above
48. Which of the following drugs is not used for doping of race horse?
 (a) Morphine (b) Cocaine
 (c) Caffeine (d) Adrenaline
49. The drugs used for doping of race horses act mainly on
 (a) Neuro-muscular system
 (b) Leg muscles
 (c) Nerves
 (d) Central nervous system
50. The functional unit of DNA that specifies synthesis of one polypeptide is
 (a) Codon (b) Cistron
 (c) Muton (d) Recon
51. Which of the following test is not performed for bacteriological count of milk?
 (a) Alizarine (b) MBR
 (c) Resazurine (d) S.P.C.
52. Which of the following is an example of energy rich unconventional feed?
 (a) Molasses (b) Maize
 (c) Ground nut (d) Cotton seed
53. Which is the non-nutritive feed additive essential in pig industry to enhance body weight gain and feed consumption?
 (a) Oxytetracycline
 (b) Sodium arsenite
 (c) Copper sulphate
 (d) All of the above
54. The wheat bran is rich specially in
 (a) Calcium (b) Phosphorus
 (c) Magnesium (d) Cobalt

SEAL

55. The presence of Zebra marking in posterior part of intestine is diagnostic lesion of which disease?
- (a) Tuberculosis
 - (b) Rinderpest
 - (c) Foot and mouth disease
 - (d) Paratuberculosis
56. Generally the concentrate and roughage are fed respectively to average lactating cow in proportion of
- (a) 40 and 60 percent
 - (b) 50 and 50 percent
 - (c) 60 and 40 percent
 - (d) 70 and 30 percent
57. Which of the following drugs is preferred for the treatment of coccidiosis in poultry ?
- (a) Furazolidone
 - (b) Sulphonamides
 - (c) Chlortetracycline
 - (d) Both (a) and (b)
58. The number of motile sperm recommended for insemination in bovine is
- (a) 10×10^6
 - (b) 10×10^9
 - (c) 1×10^6
 - (d) 2×10^6
59. Pasteurization of milk at 63°C for 30 minutes is done by which method ?
- (a) Bottle
 - (b) Vacuum
 - (c) Statinization
 - (d) All of the above
60. The accuracy of sire selection under progeny testing programme increases with
- (a) Increase in number of sires put under test
 - (b) Increase in number of daughters tested / sire
 - (c) Records obtained from different herds
 - (d) None of the above
61. Find out the Italian scientist who performed first Artificial Insemination in bitch
- (a) Ivanoff, E.I.
 - (b) Polge, C.
 - (c) Spallanzani, I.
 - (d) Norman, C.
62. Which ingredient of colostrum prevents immunoglobulin from digestion in alimentary canal of calf
- (a) Trypsin inhibitor
 - (b) Lindane
 - (c) Lactophos
 - (d) Hyaluronidase
63. The pH of good quality silage should be
- (a) 6.0
 - (b) 3.5
 - (c) 7.5
 - (d) 5.0
64. Which type of immune response is produced by passive immunization ?
- (a) Delayed response of short duration
 - (b) Long lasting response
 - (c) Immediate response of long duration
 - (d) Immediate response of short duration

65. Name the coccidian parasite which is not found in the intestine of host
- Eimeria truncate*
 - Eimeria meleagritis*
 - Eimeria mecatrix*
 - None of these
66. What should be the ideal moisture level (%) in hay for safe storage?
- 20
 - 15
 - 25
 - 35
67. The principal nucleotide to liberate energy for sperm cell motility is
- ATP
 - AMP
 - ADP
 - Inorganic phosphate
68. The milk of which animal contains more amount of natural anti-oxidant
- Indigenous cow
 - Buffalo
 - Cross bred cow
 - Sheep and goat
69. The percentage of total solids in normal milk is about
- 10.2
 - 12.5
 - 15.5
 - 07.5
70. The life span of Corpus Luteum is controlled by which of the following organs?
- Uterus
 - Oviduct
 - Vagina
 - Cervix
71. Which is the most common strain of FMD?
- O
 - A
 - C
 - Asia
72. The standard cryo protective agent to yield satisfactory results of frozen thawed semen is
- Dimethyl sulfoxide
 - Glycerol
 - Propylene glycol
 - Ethyl glycol
73. Name the procedure used to alter the gene of an infectious agent in the production of Vaccine
- Recombinant DNA technology
 - Radio Immuno Assay
 - ELISA
 - None of these
74. Which of the disease is caused by Lyssa virus?
- Yellow fever
 - Louping ill
 - Rabies
 - Lassa fever
75. Which of the following is not considered in calculation of TDN?
- CF
 - TA
 - CP
 - EE
76. The presence of petechiae on mucosae and conjunctivae are suggestive of which condition?
- Bacteraemia
 - Toxaemia
 - Septicaemia
 - Hypothermia

SEAL

- 77. Which state is known to have recognized breed of mehsana goat?
 - (a) Rajasthan
 - (b) Gujarat
 - (c) Assam
 - (d) Andhra Pradesh

- 78. Which is a rich source of carbohydrate ?
 - (a) Barley grain
 - (b) Bone meal
 - (c) Cotton seed
 - (d) Dub grass

- 79. Which of the coccidia strain is more pathogenic in chicken ?
 - (a) Eimeria maxima
 - (b) Eimeria tenella
 - (c) Eimeria acervulina
 - (d) Eimeria dispersa

- 80. Which of the state ranks first in milk production according to latest census ?
 - (a) Rajasthan
 - (b) Gujarat
 - (c) Uttar Pradesh
 - (d) Haryana

- 81. Mycobacterium tuberculosis is which type of organism ?
 - (a) Acid fast
 - (b) Gram positive
 - (c) Gram negative
 - (d) All of the above

- 82. Which is the major disease of ca and buffalo only ?
 - (a) Leptospirosis
 - (b) Brucellosis
 - (c) Septicaemic pasteurellosis
 - (d) Tuberculosis

- 83. Which fodder is bloat inducing bovine ?
 - (a) Lucerne
 - (b) Berseem
 - (c) Clovers
 - (d) All of the above

- 84. False B.Q. is caused by wh organism ?
 - (a) Clostridium chauvoei
 - (b) Clostridium septicum
 - (c) Clostridium novyi
 - (d) Both (a) and (b)

- 85. Lecithin is component in which of following ?
 - (a) Milk protein
 - (b) Milk Vitamin
 - (c) Milk lipids
 - (d) Milk pigments

- 86. In which species, the Cuboni test performed for pregnancy diagnosis
 - (a) Mare
 - (b) Cow
 - (c) Sheep
 - (d) Bitch

87. The fructose for sperm motility is provided by which one of the following accessory gland ?
- Seminal vesicles
 - Prostate glands
 - Cowper's glands
 - Bulbourethral glands
88. The smallest unit of gene capable to mutation is known as
- Recon
 - Cistron
 - Muton
 - Complion
89. The lactometer in milk without cream when compared to whole milk
- Sinks more
 - Sinks less
 - Sinks comparatively
 - Floats horizontaly
90. Which are the extra chromosomal segments found in bacteria?
- Ribosomes
 - Plasmids
 - Golgi apparatus
 - Centrosomes
91. The process of giving birth to a kitten is known as
- Queening
 - Cubbing
 - Kidding
 - Whelping
92. Name the poisonous substance which causes death by anoxemia and asphyxia
- Organic acids
 - Carbon monoxide
 - Alcohol
 - Narcotics
93. Malta fever is caused by which of the following causative agents ?
- Pasteurella spp
 - Brucella species
 - Streptococcus species
 - Toxoplasma species
94. The Nymphomaniac condition is associated with which of the following ?
- Luteal cyst
 - Follicular cyst
 - Parovarian cyst
 - Cystic corpora lutea
95. Chromosome having equal arms are known as
- Acrocentric
 - Concentric
 - Metacentric
 - Telocentric
96. Which gene interaction is responsible for 12:3:1 ratio in a hybrid cross ?
- Complementary gene interaction
 - Supplementary gene interaction
 - Recessive Epistasis
 - Dominant Epistasis

- 97.** Condition of adrenal virilism is seen in
- (a) Luteal cyst
 - (b) Follicular cyst
 - (c) Parovarian cyst
 - (d) Cystic corpus luteum
- 98.** When heritability of traits is high, the best basis of selection is
- (a) Individuals
 - (b) Progeny
 - (c) Family
 - (d) Pedigree
- 99.** Malignant oedema is caused by which clostridium perfringens?
- (a) Type B
 - (b) Type C
 - (c) Type E
 - (d) Mixed clostridium infection
- 100.** Which disease was discovered by Koch?
- (a) Tuberculosis
 - (b) Anthrax
 - (c) Cholera
 - (d) All of the above
- 101.** Semen of which species have least abnormal form of sperms
- (a) Stallion
 - (b) Ram
 - (c) Buck
 - (d) Boar
- 102.** Micro-organism responsible for flavour production in butter is
- (a) Streptococcus lactis
 - (b) Streptococcus cremoris
 - (c) Bacillus subtilis
 - (d) Lactococcus citrovorum
- 103.** The sex determination method in poultry is
- (a) XO method
 - (b) ZO method
 - (c) XX-XY method
 - (d) ZW method
- 104.** The uterine milk is also termed as
- (a) Mother's milk
 - (b) Histo-troph
 - (c) Glandular milk
 - (d) All of the above
- 105.** Sugar content in sweetened condensed milk should not be less than
- (a) 40%
 - (b) 30%
 - (c) 50%
 - (d) 35%
- 106.** Independent assortment of genes resulting in 50 percent recombination occurs due to
- (a) If genes are situated on different chromosomes
 - (b) If genes are so far apart in a chromosome that cross over always occurs
 - (c) Both (a) and (b)
 - (d) None of the above

107. The milk production in cattle is which type of trait ?
 (a) Sex limited
 (b) Sex influenced
 (c) Both (a) and (b)
 (d) None of the above
108. Lutalyse is used for treatment in which of the following disease
 (a) Luteal cyst
 (b) Mummified fetus
 (c) Oestrus synchronization
 (d) All of the above
109. The maximum bacterial count of pasteurized milk per ml is
 (a) 1,00,000
 (b) 10,000
 (c) 50,000
 (d) 1,50,000
110. Which of the following is useful in threatened abortions ?
 (a) Progesterone
 (b) Prostaglandins F2 alpha
 (c) Oestradiol 17 beta
 (d) All of the above
111. Which of the following word is associated with origin of doping in horse?
 (a) American
 (b) Dutch
 (c) Latin
 (d) None of the above
112. Synthesis and production of which hormone is affected when a cow suffer with luteal deficiency
 (a) Luteinizing hormone
 (b) Progesterone
 (c) Follicle stimulating hormone
 (d) Inhibin
113. Which theory is used in pasteurization of milk ?
 (a) Counter current
 (b) Mechanical
 (c) Team current
 (d) Counter
114. Failure of testis to descend into scrotum is termed as
 (a) Ectopic testis
 (b) Cryptorchidism
 (c) Testis inguinalis
 (d) Impotency
115. In cross breeding the breeds should be genetically
 (a) Closer
 (b) Distant
 (c) Very closer
 (d) All of the above
116. The structural chromosomal abnormality includes
 (a) Robertsonian Translocation
 (b) Euploidy
 (c) Aneuploidy
 (d) All of the above

117. Presence of which in ruminants is responsible for conversion of low quality feed protein into usable amino acids
- (a) Pancreatic juice
 - (b) Enzymes
 - (c) Ptylin
 - (d) Micro-organism
118. The pressure inside artificial vagina of a bull should be
- (a) 30-45 mm of Hg
 - (b) 30-45 mm of H₂O
 - (c) 45-55 mm of Hg
 - (d) 45-55 mm of H₂O
119. Linkage can be tested by test crossing the
- (a) F1 hybrid
 - (b) F2 hybrid
 - (c) F3 hybrid
 - (d) None of the above
120. Which animal contribute maximum to the milk production of India?
- (a) Goat
 - (b) Buffalo
 - (c) Cow
 - (d) Sheep