

**KARNATAKA VETERINARY, ANIMAL AND FISHERIES SCIENCES
UNIVERSITY, BIDAR**
Post Graduate Entrance Examinations: 2021-22
MVSc : Group A

HALL TICKET NO. :

Date: 10th May 2022
Max Marks : 100
Duration : 2 Hrs.

Choose the correct answer from the four options given under each question and fill the relevant circle with black ball point pen in the OMR Sheet.

Note: 1) Do not use pencil for marking on the OMR Sheet.

2) Marking on the OMR sheet for more than one option for a question will be rendered invalid.

1. The acromion process is absent in:
 - a. Buffalo
 - b. Cow
 - c. Dog
 - d. Donkey

2. The Atypical cervical vertebrae is
 - a. First
 - b. Third
 - c. Sixth
 - d. Seventh

3. The example of amphiarthroses joint is
 - a. Inter vertebral articulation
 - b. Shoulder
 - c. Hock
 - d. Carpal

4. Two anterior vena cava are seen in
 - a. Dog
 - b. Cow
 - c. Fowl
 - d. Horse.

5. Os phrenic is a visceral bone present in
- Dog
 - Camel
 - Bird
 - Pig
6. The popliteal lymph gland is superficial in
- Cow
 - Buffalo
 - Dog
 - Donkey
7. Small intestine is lined by
- Simple squamous epithelium
 - Simple Cuboidal epithelium
 - Stratified squamous epithelium
 - Simple Columnar epithelium
8. The nucleus is cart wheel shaped in
- Lymphocyte
 - Plasma cell
 - Mast cell
 - Monocyte
9. The inclusion bodies seen in the cell is
- Lysosomes
 - Peroxisomes
 - Lipofuscin
 - Ribosomes
10. The reticular tissue forms the frame work of
- Liver
 - Gall bladder
 - Spleen
 - Kidney
11. The key enzyme that helped Kary Mullis in the invention of PCR is:
- Restriction endonuclease
 - Taq polymerase
 - Vent polymerase
 - Ligase

12. cDNA is synthesised from RNA by the enzyme
- a. DNA polymerase
 - b. Reverse transcriptase
 - c. DNA synthetase
 - d. DNA convertase
13. Radionuclide used for monitoring of protein synthesis is
- a. ^{32}P
 - b. ^{125}I
 - c. ^3H
 - d. ^{35}S Met
14. The toxin that inhibits translocation in eukaryotes is
- a. Cholera
 - b. Diphtheria
 - c. *S. aureus*
 - d. None of the above
15. How many DNA duplexes are obtained from one DNA duplex after 4 cycles of PCR
- a. 8
 - b. 4
 - c. 32
 - d. 16
16. All are monoclonal antibodies except
- a. Rituximab
 - b. Transtuzumab
 - c. Infliximab
 - d. Tamoxifen
17. The hybridomas are made by
- a. fusing T cells with myeloma cells
 - b. fusing B cells with myeloma cells
 - c. fusing T helper cells with myeloma cells
 - d. fusing B memory cells with myeloma cells
18. Which of the following cell is made deficient of HGPRT enzyme
- a. B cells
 - b. hybrid cells
 - c. myeloma cells
 - d. none of these

19. Aneuploidy is the abnormal condition in which
- a. loss of chromosomes occur
 - b. gain of chromosomes occur
 - c. Usual diploid constitution differs
 - d. All the above
20. _____ was a pioneer in cell culture media formulation
- a. Glasgow
 - b. Rosewell
 - c. Eagle
 - d. Dulbecco
21. Peripheral blood reticulocyte count is done to differentiate between regenerative and non-regenerative anemia in all animals except in
- a. Horse
 - b. Cattle
 - c. Dog
 - d. Cat
22. Which of the following enzymes has direct cell-membrane damaging effect?
- a. Glutathione peroxidase
 - b. Lipid peroxidase
 - c. Catalase
 - d. Superoxide dismutase
23. Which blood enzyme is a sensitive indicator of hepatic disease in cattle
- a. ALT
 - b. AST
 - c. ALP
 - d. GGT
24. Edema due to filaria or *Demodex* mite results due to
- a. Sodium and water retention
 - b. Lymphatic obstruction
 - c. Reduced plasma osmotic pressure
 - d. Increased hydrostatic pressure
25. The triad of organs usually affected in Tyzzer's disease in rats include
- a. Liver, kidney and spleen
 - b. Kidney, spleen and heart
 - c. Intestine, liver and heart
 - d. Kidney, heart and spleen.

26. Gitter cells are
- a. Activated astrocytes
 - b. Activated fat laden microglial cells
 - c. Activated oligodendroglia cells
 - d. Activated epithelial cells
27. Ultraviolet rays bring about mutation in host DNA by
- a. Chromosomal break
 - b. Chromosomal translocation
 - c. Free radical formation
 - d. Pyrimidine dimer formation
28. Anemia due to acute blood loss or hemolysis is
- a. Macrocytic hypochromic anemia
 - b. Macrocytic normochromic anemia
 - c. Microcytic hypochromic anemia
 - d. Normocytic normochromic anemia
29. Cachexia in tuberculosis is due to
- a. Interleukin -2
 - b. TNF –alpha
 - c. Interferon
 - d. TNF – beta
30. Spherocytes in the blood smear with splenomegaly in dogs indicates
- a. Immune mediated hemolytic anemia
 - b. Toxin induced hemolytic anemia
 - c. Protozoan parasite induced hemolytic anemia
 - d. Enzyme induced hemolytic anemia
31. The toxic activity of Lipopolysaccharide(LPS) in Gram negative bacteria is due to
- a. Lipid A
 - b. Core polysaccharide
 - c. LPS
 - d. O polysaccharide
32. An important source for Complement proteins is
- a. Rabbit serum.
 - b. Guinea pig serum
 - c. Horse serum
 - d. Pig serum

33. Cytopathic effect (CPE) is an indication of virus replication in
- a. Chick embryo
 - b. Experimental animal
 - c. Agar medium
 - d. Cell cultures
34. Cytoplasmic membrane of Mycoplasma organisms is rich in
- a. Mycolic acid
 - b. Teichoic acid
 - c. Sterols
 - d. Muramic acid
35. Particulate antigens are used in
- a. Precipitation tests
 - b. Agglutination tests
 - c. Neutralization tests
 - d. Diffusion tests
36. Tuberculin is
- a. Therapeutic reagent
 - b. Diagnostic reagent
 - c. Prophylactic reagent
 - d. Biochemical reagent
37. Mycolic acids are present in the cell wall of which of the following bacteria
- a. Listeria
 - b. Erysipelothrix
 - c. Leptospira
 - d. Mycobacteria
38. 'Cold mastitis' in dairy cows is seen in which of the following disease
- a. Listeriosis
 - b. Leptospirosis
 - c. Tuberculosis
 - d. Brucellosis
39. In ELISA, the enzyme used to conjugate with antibody is
- a. Catalase
 - b. Coagulase
 - c. Horse radish peroxidase
 - d. Hydrogenase

40. *McFadyeans reaction* is used to demonstrate
- a. *Bacillus cereus* capsule
 - b. Viral envelope
 - c. *Bacillus anthracis* capsule
 - d. *Corynebacterium bovis* capsule
41. Hip joint pain and lameness in an otherwise healthy, young dog of a small breed are most likely associated with
- a. Aseptic femoral necrosis
 - b. Septic arthritis
 - c. Synovial cell sarcoma
 - d. Hip dysplasia
42. Which one of the following procedures involves suturing the uterine stump to the abdominal wall to encircle the bladder neck, thereby improving sphincter function?
- a. Vaginopexy
 - b. Colposuspension
 - c. Urethroplasty
 - d. Cystoplasty
43. When are prophylactic antibiotics used?
- a. To treat dirty wounds
 - b. Immediately prior to prolonged surgery
 - c. Orally for 10 days following urinary bladder surgery
 - d. Orally for 2 days prior to elective procedures
44. Chronic recurrent anal sacculitis should be treated should be treated with
- a. Colopexy
 - b. Anal sacculotomy
 - c. Tail amputation
 - d. Enemas
45. Acute, life threatening upper airway obstruction resulting from postoperative edema of the larynx and requiring immediate tracheostomy would be classified in which surgical risk category?
- a. Physical status II
 - b. Physical status III
 - c. Physical status IV
 - d. Physical status V
46. The most common primary brain tumor of dogs and cats is:
- a. Meningioma
 - b. Lymphosarcoma
 - c. Astrocytoma
 - d. Glioma

47. Which one of the following can impair weight-bearing?
- a. An acetabular fracture
 - b. A pubic fracture
 - c. Coccygeal vertebrae fractures
 - d. Rupture of the prepubic tendon
48. A rostral mandibular tumor involving the symphysis should be treated with
- a. Bilateral rostral mandibulectomy
 - b. Unilateral rostral mandibulectomy
 - c. Total hemimandibulectomy
 - d. Partial rostral maxillectomy
49. Chronic bacterial otitis externa and media would best be treated by:
- a. Pinna resection
 - b. Bulla osteotomy
 - c. Lateral wall resection
 - d. Total ear canal ablation and bulla osteotomy
50. Which suture pattern is preferred for end-to-end anastomosis of the esophagus?
- a. Single-layer inversion
 - b. Double-layer inversion
 - c. Single-layer eversion
 - d. Double-layer apposition
51. Johne's disease in goats is not commonly associated with
- a. Weight loss
 - b. Diarrhoea
 - c. Hypoalbuminemia
 - d. None
52. 'Clock face' arrangement of nuclei in cells of monolayer is associated with
- a. PPR
 - b. FMD
 - c. BT
 - d. None
53. 'Sungri strain' is associated with vaccine of
- a. Rinderpest
 - b. Blue tongue
 - c. PPR
 - d. Sheep pox

54. During outbreak of IBR, the type of vaccines preferred is
- a. Intra nasal
 - b. Parenteral
 - c. Intra ocular
 - d. Oral
55. Intracloacal route of vaccination was employed to protect birds against
- a. IBD
 - b. IB
 - c. ILT
 - d. MD
56. The chemical recommended to inactivate FMD virus is
- a. Sodium carbonate
 - b. Sodium bicarbonate
 - c. Sodium hypochlorite
 - d. Formalin
57. Inclusion bodies in fowl pox are called as
- a. Guarnier bodies
 - b. Negri bodies
 - c. Bollinger bodies
 - d. None
58. The causative agent of sporadic bovine encephalitis is
- a. Chlamydia psittaci
 - b. Listeria monocytogenes
 - c. Streptococcus bovis
 - d. E. coli
59. The etiology of Gangrenous dermatitis in birds is
- a. Cl. septicum
 - b. Cl. perfringens
 - c. Staphylococcus aureus
 - d. All the above
60. In mastitis, pH of milk is
- a. Less than 4.6
 - b. 4.7 – 6.5
 - c. More than 6.8
 - d. None

61. Deficiency of the vitamin which causes RFM in cattle is
- Vitamin A
 - Vitamin E
 - Vitamin D
 - Vitamin K
62. The Hormone used for Superovulation in cattle is
- Estrogen
 - PGF₂ α
 - PMSG
 - hCG
63. The name of the first cloned sheep in the world is
- Billy
 - Gilly
 - Polly
 - Dolly
64. Non-infectious Balanoposthitis in a ram is known as
- Pizzle rot
 - Pisa rot
 - Rotten penis
 - Phimosis
65. Inability of the penis to retract back to prepuce is called as
- Phimosis
 - Paraphimosis
 - Pizzle rot
 - Hypospadia
66. Sigmoid flexure in boar is
- post-scrotal
 - pre-scrotal
 - scrotal
 - Prepuce
67. Loss of lobulation of the seminal vesicles in a Bull is a characteristic of
- Seminal vesiculitis
 - Testicular degeneration
 - Orchitis
 - Hypoplasia

68. One of the sequel of Cryptorchidism in males is
- a. Interstitial tumor
 - b. Sertoli cell tumor
 - c. Seminoma
 - d. Hypoplasia of testes
69. The ovulation occurs during estrus in all species except in ____
- a. Queen cat
 - b. Dog
 - c. Mare
 - d. Cow
70. Psuedocycyis is commonly seen in
- a. Queen cat
 - b. Dog
 - c. Mare
 - d. Cow
71. Inhibitory amino acid in the brain is
- a. Aspartic acid
 - b. Glutamic acid
 - c. Substance P
 - d. Gamma Aminobutyric Acid
72. Aromatase enzyme is involved in
- a. Protein hormone synthesis
 - b. Steroidogenesis
 - c. Thyroid hormone production
 - d. Catecholamine production
73. Gonadotrophin inhibiting hormone is first identified in
- a. Quails
 - b. Humans
 - c. Pig
 - d. Chicken
74. The hair cells are concerned with the following sense
- a. Vision
 - b. Olfaction
 - c. Hearing
 - d. Taste

- 75.The largest muscle protein is
a.Myosin
b.Actin
c.Tropomyosin
d.Titin
- 76.Specific Dynamic action is also known as
a.Heat increment
b.Heat decrement
c.Hypothermia
d.Fever
- 77.Kidneys are the only source for the production of erythropoietin in
a.Bovines
b.Humans
c.Canines
d.Porcines
- 78.N –butyl mercaptan is the pheromone identified in
a.Skunk
b.Bitch
c.Cattle
d.Boar
- 79.Herring Breur Reflex is concerned with
a.Cardiac function
b.Respiration
c.Nerve Function
d.Erythropoiesis
- 80.The chemical nature of prolactin inhibiting hormone is
a.Dopamine
b.Histidine
c.Serotonin
d.Tryptophan
- 81.Rideal-Walker coefficient is a measure of efficacy of:
a.antimicrobials
b.probiotics
c.insecticides
d.Disinfectants

82. Crystalluria is associated with:
- a. cephalosporins
 - b. tetracyclins**
 - c. sulfonamides
 - d. Aminoglycosides
83. A more gradual decrease in response to a drug taking few days -to weeks is called:
- a. idiosyncrasy
 - b. tolerance
 - c. tachyphylaxis
 - d. Desensitization
84. Ototoxicity is associated with:
- a. tetracycline
 - b. cephalexin
 - c. streptomycin
 - d. norfloxacin
85. The toxic principle 'ricin' is present in:
- a. castor seeds
 - b. cotton seeds
 - c. pumpkin seeds
 - d. datura seeds
86. One among the following act as '*suicide inhibitor*' in terms its mode of action:
- a. griseofulvin
 - b. clavulanic acid
 - c. paraminobenzoic acid
 - d. levamisole hcl
87. Ciprofloxacin is metabolite of:
- a. enrofloxacin
 - b. pefloxacin
 - c. ofloxacin
 - d. norfloxacin
88. One among the following is a non-steroidal anti-estrogenic agent:
- a. finasteride
 - b. flutamide
 - c. diethyl stilbioestrol
 - d. tamoxifen citrate

89. Class of antibiotic effective against vancomycin resistant *Staphylococcus aureus*
- a. aminoglycosides
 - b. quinolones
 - c. streptogramins
 - d. Macrolids
90. A non-sedative H₁ antihistamine:
- a. promethazine
 - b. chlorpheniramine
 - c. cetirizine
 - d. diphenhydramine
91. Parthenogenesis is found to occur in the life cycle of
- a. *Strongylus vulgaris*
 - b. *Strongyloides*
 - c. *Haemonchus*
 - d. *Triodontophorus*
92. Skin penetration is the common mode of infection in
- a. Hookworms
 - b. Horse large strongyles
 - c. Stomach worms
 - d. Round worms
93. The fungus *Pilobolus* aids in the transmission of
- a. *Metastrongylus*
 - b. *Haemonchus*
 - c. *Dictyocaulus*
 - d. *Protostrongylus*
94. The first antihelminthic recombinant vaccine was developed to control
- a. *Taenia ovis*
 - b. *Dictyocaulus viviparus*
 - c. *Dictyocaulus filaria*
 - d. *Taenia solium*
95. Transverse binary fission is the mode of multiplication in
- a. *Amoeba*
 - b. *Ciliates*
 - c. *Haemoprotozoa*
 - d. *Giardia*

96. Elephants belong to order
a. Proboscidea
b. Hyenidae
c. Mustelidae
d. Ursidae
97. Wild life protection act came into existence in the year
a. 1962
b. 1982
c. 1972
d. 1992
98. Kyasanur Forest Disease is transmitted by
a. Ixodus
b. Boophilus
c. Haemophysalis
d. Hyalomma
99. Antlers are present in
a. Bears
b. Tigers
c. Bison
d. Deers
100. Darting site in rhinoceros is
a. Thigh
b. Neck
c. Fore leg
d. Hind leg
