

**DO NOT OPEN THIS TEST BOOKLET UNTIL YOU ARE ASKED TO DO SO**

Test Booklet Series

T. B. C. : VS - 1-21/22

**A**

**TEST BOOKLET**  
(VETERINARY ASSISTANT SURGEON)

PAPER - I

Sl. No. **1105**

(VETERINARY SCIENCE)

Time Allowed :  $2\frac{1}{2}$  Hours

Maximum Marks : 400

**: INSTRUCTIONS TO CANDIDATES :**

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 OF THE SAME SERIES ISSUED TO YOU.
2. ENCODE CLEARLY THE TEST BOOKLET SERIES **A, B, C** OR **D**, AS THE CASE MAY BE, IN THE APPROPRIATE PLACE IN THE ANSWER SHEET USING BALL POINT PEN (BLUE OR BLACK).
3. You have to enter your **Roll No.** on the Test Booklet in the Box provided alongside. **DO NOT** write *anything else* on the Test Booklet.
4. **YOU ARE REQUIRED TO FILL UP & DARKEN** ROLL NO., TEST BOOKLET / QUESTION BOOKLET SERIES IN THE ANSWER SHEET AS WELL AS FILL UP TEST BOOKLET / QUESTION BOOKLET SERIES AND SERIAL NO. AND ANSWER SHEET SERIAL NO. IN THE ATTENDANCE SHEET CAREFULLY. **WRONGLY FILLED UP ANSWER SHEETS ARE LIABLE FOR REJECTION AT THE RISK OF THE CANDIDATE.**
5. This Test Booklet contains **200** items (questions). Each item (question) comprises four responses (answers). You have to select the correct response (answer) which you want to mark (darken) on the Answer Sheet. In case, you feel that there is more than one correct response (answer), you should mark (darken) the response (answer) which you consider the best. In any case, choose **ONLY ONE** response (answer) for each item (question).
6. You have to mark (darken) all your responses (answers) **ONLY** on the **separate Answer Sheet** provided by using **BALL POINT PEN (BLUE OR BLACK)**. See instructions in the Answer Sheet.
7. All items (questions) carry equal marks. All items (questions) are compulsory. Your total marks will depend only on the number of correct responses (answers) marked by you in the Answer Sheet.
8. Before you proceed to mark (darken) in the Answer Sheet the responses (answers) to various items (questions) in the Test Booklet, you have to fill in some particulars in the Answer Sheet as per the instructions sent to you with your **Admission Certificate**.
9. After you have completed filling in all your responses (answers) on the Answer Sheet and after conclusion of the examination, you should hand over to the Invigilator the *Answer Sheet* issued to you. You are allowed to take with you the candidate's copy / second page of the Answer Sheet along with the **Test Booklet**, after completion of the examination, for your reference.
10. Sheets for rough work are appended in the Test Booklet at the end.

**DO NOT OPEN THIS TEST BOOKLET UNTIL YOU ARE ASKED TO DO SO**

1. Which of the following is the smallest compartment of the ruminant stomach ?
- (A) Rumen  
(B) Reticulum  
(C) Omasum  
(D) Abomasum
2. Which of the following is a tendinous linear sheet present at the abdominal floor ?
- (A) Linea alba  
(B) Rectus abdominis  
(C) Fascia  
(D) Tendoachillis
3. The typical sign of ripened abscess is :
- (A) Swelling  
(B) Pain  
(C) Fluctuation  
(D) Pointing
4. Which among the following causes inhibition of the aggregation of platelets ?
- (A) Aspirin  
(B) Urokinase  
(C) Thromboxane A<sub>2</sub>  
(D) Streptokinase
5. Punched out ulcers in the abomasum of cattle are characteristic of :
- (A) *Theileria annulata*  
(B) *Babesia bigemina*  
(C) *Haemonchus contortus*  
(D) *Ostertagia Ostertagi*
6. Blood is added in blood medium agar at the following concentration :
- (A) 5-10 %  
(B) 15 %  
(C) 20 %  
(D) 2 %

7. The test used for diagnosis of Equine infectious anemia is :
- (A) Coombs test
  - (B) Straus's test
  - (C) Casoni test
  - (D) Coggins test
8. Which is the largest foramen in the skull ?
- (A) Foramen magnum
  - (B) Supraorbital foramen
  - (C) Infra orbital foramen
  - (D) Mantel foramen
9. Following artificial insemination in the cow, the increased retrograde flow will occur if semen is placed in which of the following locations ?
- (A) Cervix
  - (B) Uterine body
  - (C) Uterine horn, at the greater curvature (half way up the uterine horn)
  - (D) At the distal tip of the uterine horn
10. The acquisition of DNA molecule by bacterial cells from environment is called :
- (A) Transformation
  - (B) Transduction
  - (C) Conjugation
  - (D) None of these
11. Coughing up of blood is termed as :
- (A) Haematemesis
  - (B) Epistaxis
  - (C) Metrorrhagia
  - (D) Haemoptysis
12. A hematocrit value of 80 in a dog would be considered :
- (A) Polycythemia
  - (B) Anemia
  - (C) Thrombocytopenia
  - (D) Leukemia
13. Meckel's diverticulum is an anomaly seen in the development of :
- (A) Respiratory system
  - (B) Urinary system
  - (C) Digestive system
  - (D) Genital system

14. Bacteria that grow at 50-55° C are known as :
- (A) Psychrophiles
  - (B) Mesophiles
  - (C) Thermophiles
  - (D) Halophiles
15. Fragmentation of nucleus in a cell is termed as :
- (A) Pyknosis
  - (B) Karyorrhexis
  - (C) Karyolysis
  - (D) Chromatolysis
16. Triangular and pyriform apparatus like cooked rice grain present in the egg of :
- (A) **Moniezia sp.**
  - (B) **Hymenolepis sp.**
  - (C) **Dipylidium sp.**
  - (D) **Taenia sp.**
17. Sodium pentothal is :
- (A) Rapid short-acting barbiturate
  - (B) Long-acting barbiturate
  - (C) Short-acting barbiturate
  - (D) Intermediate acting barbiturate
18. Which of the following is an unpaired skeletal muscle present in the animal body ?
- (A) Diaphragm
  - (B) Bicepbrachii
  - (C) Popliteus
  - (D) Quadriceps femoris
19. Spherical bodies, weighing 0.45-0.9 kg, attached to the placenta of a normal calf comprising of an outer skin enclosing a mass of adipose connective tissue is known as :
- (A) Perosomus elumbis
  - (B) Amorphus globosus
  - (C) Otter calf
  - (D) Schistosomus reflexus
20. Which one of the following is the longest nerve in the animal body ?
- (A) Vagus
  - (B) Sciatic
  - (C) Femoral
  - (D) Median

21. The first bacterial genome sequenced was of :
- (A) **Salmonella typhimurium**
  - (B) **Bacillus anthracis**
  - (C) **Pseudomonas aeruginosa**
  - (D) **Haemophilus influenza**
22. Medusa head colonies are characteristic features of :
- (A) **Rickettsia spp.**
  - (B) **Bacillus anthracis**
  - (C) **Clostridium botulinum**
  - (D) **Listeria spp.**
23. Haemoglobinuria is seen in :
- (A) Theileriosis
  - (B) Leptospirosis
  - (C) Salmonellosis
  - (D) Pasturellosis
24. Who is the father of Cellular Pathology ?
- (A) John Hunter
  - (B) Robert Koch
  - (C) Rudolph Virchow
  - (D) Julius Cohnheim
25. Pseudorabies is caused by :
- (A) Lyssa virus
  - (B) Picorna virus
  - (C) Paramyxovirus
  - (D) Herpes virus
26. The causative agent for Pulpy Kidney disease is :
- (A) **Clostridium perfringens**
  - (B) **Clostridium septicum**
  - (C) **Clostridium novyi**
  - (D) **Clostridium tetani**
27. Which of the following cells is primarily responsible for the production of collagen and the amorphous ground substance in loose connective tissue ?
- (A) Adipocyte
  - (B) Fibroblast
  - (C) Mast cell
  - (D) Plasma cell

28. Which among the following is an osmotic diuretic ?
- (A) Magnesium sulphate
  - (B) Ethacrynic acid
  - (C) Spironolactone
  - (D) None of these
29. Androgen Binding protein is secreted by :
- (A) Leydig cells
  - (B) Spermatogonia
  - (C) Sertoli cells
  - (D) Efferent ducts
30. Sertoli cell tumors in dog secretes :
- (A) Testosterone
  - (B) Estrogen
  - (C) Androgen
  - (D) Prolactin
31. Large number of primary sperm abnormalities are indicative of :
- (A) Ectopic testes
  - (B) Testicular degeneration
  - (C) Testicular neoplasm
  - (D) Testicular fibrosis
32. Well established protozoan disease transmitted through milk :
- (A) Cysticercosis
  - (B) Toxoplasmosis
  - (C) Giardiasis
  - (D) Salmonellosis
33. Garlic like odour of gastrointestinal contents is suggestive of poisoning with :
- (A) Nitrate
  - (B) HCN
  - (C) Alkali
  - (D) Phosphorus
34. Gape worm of poultry is :
- (A) **Ascaridia galli**
  - (B) **Heterakis gallinarum**
  - (C) **Syngamus trachea**
  - (D) **Subulura brumpti**

35. Epithelial Pearls are seen in :
- (A) Sebaceous gland adenoma  
(B) Squamous cell carcinoma  
(C) Melanoma  
(D) Papillary adenocarcinoma
36. Blue Tongue in sheep is caused by :
- (A) Herpes virus  
(B) Birna virus  
(C) Picorna virus  
(D) Orbi virus
37. Typical radiographic sign of osteoarthritis is :
- (A) Increased joint space  
(B) Decreased joint space  
(C) Irregular joint space  
(D) Irregular joint space with new bony growth
38. The following is not an indication of PGF2 alpha :
- (A) Synchronization of oestrus  
(B) Cystic ovaries  
(C) Persistent corpus luteum  
(D) Induction of abortion
39. Clinical manifestation of canine parvovirus infection is / are :
- (A) Myocarditis in pups  
(B) Haemorrhagic diarrhoea  
(C) Leukopenia  
(D) All of these
40. The smooth muscle around the spermatic cord that helps in thermoregulation of tests is :
- (A) Tunica dartos  
(B) Cremaster muscle  
(C) Pampiniform plexus  
(D) Gubernaculum
41. The terminology used for the high per cent of abnormal sperms :
- (A) Teratozoospermia  
(B) Aspermia  
(C) Asthenozoospermia  
(D) Necrozoospermia

42. Tigroid heart is seen in calves affected with :
- (A) Bovine malignant catarrhal
  - (B) Botulism
  - (C) Bovine viral diarrhoea
  - (D) Foot and mouth disease
43. Docking in an adult dog is performed under :
- (A) Epidural
  - (B) Local infiltration
  - (C) Ring block
  - (D) General anaesthesia
44. The type of necrosis that occurs in an abscess is :
- (A) Coagulative necrosis
  - (B) Liquefactive necrosis
  - (C) Caseative necrosis
  - (D) Fat necrosis
45. Tuberculin test is based on :
- (A) Delayed hypersensitivity
  - (B) Arthus reaction
  - (C) Anaphylactic reaction
  - (D) Type III hypersensitivity
46. A common term for myiasis caused by members of calliphoridae is :
- (A) Blowfly strike
  - (B) Pediculosis
  - (C) Mange
  - (D) None of these
47. Manganese deficiency may predispose chicks to develop :
- (A) Pica
  - (B) Star grazing condition
  - (C) Crazy chick disease
  - (D) Slipped Tendon
48. Which is the space present between the vertebral canal and spinal duramater ?
- (A) Subarachnoid space
  - (B) Subdural space
  - (C) Epidural space
  - (D) Dural space



49. Example of metazoonoses is :
- (A) Cutaneous larva migrans  
(B) Listeriosis  
(C) Brucellosis  
(D) Plague
50. Ingestion of Lantana foliage causes :
- (A) Hepatotoxicity and Photosensitization  
(B) Acute Enteritis  
(C) Pulmonary haemorrhage  
(D) Nephrotoxicity
51. Deaths among clinically affected animals indicate :
- (A) Incident Rate  
(B) Morbidity Rate  
(C) Case Fatality Rate  
(D) Prevalence Rate
52. The lesion in the brain of cow affected by mad cow disease :
- (A) Neuronal degeneration  
(B) Neuronal vacuolation  
(C) Inclusion bodies in neurons  
(D) Encephalitis
53. Antihypertensive drug with angiotensin converting enzyme inhibiting action :
- (A) Prazosin  
(B) Verapamil  
(C) Frusemide  
(D) Captopril
54. Brooder pneumonia is caused by :
- (A) **Aspergillus flavus**  
(B) **Aspergillus ochraceous**  
(C) **Aspergillus parasiticus**  
(D) **Aspergillus fumigatus**
55. Paralysis of the hindquarter is termed as :
- (A) Hemiplegia  
(B) Monoplegia  
(C) Quadriplegia  
(D) Paraplegia

56. The toxic principle present in cottonseed is :
- (A) Sinigrin
  - (B) Gossypol
  - (C) Tannin
  - (D) Mimosin
57. Microglia cells are present in the :
- (A) Blood
  - (B) Bone Marrow
  - (C) Pancreas
  - (D) Brain
58. Surgical operation for providing drainage from the middle ear is known as :
- (A) Zepps Operation
  - (B) Hyovertebrotoomy
  - (C) Ventriculectomy
  - (D) Bulla osteotomy
59. Bronze discolouration of the liver is a characteristic feature of :
- (A) Pullorum Disease
  - (B) Fowl Cholera
  - (C) Fowl Typhoid
  - (D) Spirochaetosis
60. Chocolates are toxic to dogs due to the presence of :
- (A) Aminophylline
  - (B) Terbutaline
  - (C) Theobromine
  - (D) Caffeine
61. An estrogenic mycotoxin affecting pigs :
- (A) Zearalenone
  - (B) Aflatoxin
  - (C) T-2 toxin
  - (D) Ochratoxin
62. In horses, stertorous sounds due to laryngeal paralysis is caused by poisoning with :
- (A) Arsenic
  - (B) Lead
  - (C) Selenium
  - (D) Molybdenum

63. Which among these is also known as Bang's disease ?
- (A) Trichomoniasis
  - (B) Brucellosis
  - (C) Leptospirosis
  - (D) Vibriosis
64. Milk vein in cattle is :
- (A) Subcutaneous abdominal
  - (B) Hepatic vein
  - (C) Pudendal vein
  - (D) Mammary vein
65. Plaster of Paris is a powder of :
- (A) Calcium carbonate
  - (B) Magnesium sulphate
  - (C) Zinc sulphate
  - (D) Calcium sulphate
66. The term frog is associated with the hoof of :
- (A) Cow
  - (B) Horse
  - (C) Buffalo
  - (D) Pig
67. Which antibiotic causes Vitamin K deficiency ?
- (A) Oxytetracycline
  - (B) Quinolones
  - (C) Penicillin
  - (D) Sulphaquinoxalin
68. The presence of epithelial casts in urine is indicative of :
- (A) Nephritis
  - (B) Hepatitis
  - (C) Cystitis
  - (D) Urethritis
69. Humoral immunity is mediated by circulating antibodies produced by :
- (A) Plasma cells
  - (B) Hepatic cells
  - (C) Kupffer cells
  - (D) T Helper cells
70. Anaesthetic contraindicated in cats :
- (A) Amobarbital
  - (B) Propofol
  - (C) Diazepam
  - (D) Ketamine

71. Which is the most common rapid and sensitive diagnostic test for Rabies ?
- (A) ELISA  
(B) Direct Fluorescent Assay  
(C) Dot blot immunoassay  
(D) Negri body detection
72. A sedative and an analgesic of choice for use in horses :
- (A) Acepromazine  
(B) Dipyrone  
(C) Detomidine  
(D) Trifluopromazine
73. Sterilisation of operation theatre is done by :
- (A) Nitrous oxide gas  
(B) Steaming  
(C) Ethylene oxide gas  
(D) UV irradiation
74. Maternal Recognition of Pregnancy (M. R. P) is responsible for :
- (A) Fetal growth  
(B) Implantation  
(C) Maternal circulation  
(D) Fertilization
75. In the testes, testosterone secreting cells are :
- (A) Germinal epithelium  
(B) Leydig cells  
(C) Sertoli cells  
(D) Seminiferous epithelium
76. Triclabendazole is a drug of choice for :
- (A) Liver fluke  
(B) Haemonchus  
(C) Lungworm  
(D) Tapeworms
77. The larvae of **Oestrus ovis** are commonly referred to as :
- (A) Gnats  
(B) Warble  
(C) Bots  
(D) None of these

78. **Taenia mutliceps** is tapeworm of dog and its larval stage present in sheep / cattle is known as :

- (A) Cysticercosis
- (B) Hydatid
- (C) Coenurus cerebralis
- (D) Taeniasis

79. Circling disease in cattle is caused by :

- (A) **Listeria monocytogenes**
- (B) **Erysipelothrix rhusiopathiae**
- (C) **Streptococcus equi**
- (D) **Chlamydia psittacii**

80. The most important cause of vagal indigestion in cattle is :

- (A) Oesophageal choke
- (B) Abomasitis
- (C) Traumatic Reticuloperitonitis
- (D) Liver dysfunction

81. Which of the following cells is responsible for myelin formation in the peripheral nervous system ?

- (A) Astrocyte

(B) Oligodendrocyte

(C) Schwann cell

(D) Microglial cell

82. The general steps in the viral multiplication cycle are :

(A) Attachment, penetration, uncoating, replication, maturation and release

(B) Endocytosis, penetration, replication, assembly and lysis

(C) Attachment, uncoating, replication, assembly and budding

(D) Endocytosis, penetration, replication, maturation and exocytosis

83. The growth of *Brucella* organisms is favoured due to :

(A) Erythritol

(B) Sorbitol

(C) Glucose

(D) Protein

84. Virus having RNA dependent DNA polymerase :
- (A) Retrovirus
  - (B) Reovirus
  - (C) Rabies virus
  - (D) Rubella
85. The following suture is used to narrow and constrict the lumen of a hollow organ :
- (A) Eversion Suture
  - (B) Inversion Suture
  - (C) Purse-string Suture
  - (D) Apposition Suture
86. Which one of the following ligaments is of great importance for the treatment of upward fixation of the patella in the bullock ?
- (A) Medial patellar ligament
  - (B) Middle patellar ligament
  - (C) Lateral patellar ligament
  - (D) Cruciate ligament
87. Which type of placenta is present in cows ?
- (A) Syndesmochorial
  - (B) Epitheliochorial
  - (C) Endotheliochorial
  - (D) Haemochorial
88. Postmortem findings suggestive death by drowning :
- (A) White froths in mouth and nostril
  - (B) Early rigor mortis
  - (C) Oedematous lungs
  - (D) All of these
89. The antiseptic activity of Dettol is due to the presence of :
- (A) Chlorhexidine
  - (B) Chloroxylenol
  - (C) Chlorophores
  - (D) All of these

90. Ribotyping is extensively used for identifying pathogens :

- (A) Bacteria
- (B) Fungus
- (C) Virus
- (D) Parasites

91. Sucralfate promotes healing of duodenal ulcers by :

- (A) Enhancing gastric mucus and bicarbonate secretion
- (B) Forming a protective layer on the ulcer and preventing the action of acid-pepsin on ulcer base
- (C) Promote regeneration of mucosa
- (D) Both (A) and (B)

92. Which of the following substances characteristically increases in abundance with increasing age in terminally differentiated cells such as neurons and muscle ?

- (A) Cyclin

(B) Desmin

(C) Lipofuscin

(D) Amyloid

93. Glycogen is the major storage form of :

(A) Protein

(B) Lipid

(C) Carbohydrate

(D) Nucleoprotein

94. The epithelium having secretory function is called :

(A) Simple epithelium

(B) Stratified epithelium

(C) Glandular epithelium

(D) None of these

95. Staining of tissue with haemoglobin after death of the animal is referred as :

(A) Algor mortis

(B) Livor mortis

(C) Rigor mortis

(D) Pseudomelanosis

96. A differential cell count of a blood smear from a patient with endoparasitic infection is likely to reveal an increase in the circulating numbers of which of the following cell types ?
- (A) Basophils  
(B) Eosinophils  
(C) Lymphocytes  
(D) Monocytes
97. Which of the following terms refers to the percentage of packed erythrocytes per unit volume of blood ?
- (A) Haemoglobin  
(B) Hematocrit  
(C) Buffy coat  
(D) Poikilocytosis
98. The temperature of a cow suffering from milk fever is :
- (A) 96°F  
(B) 102°F  
(C) 104°F  
(D) 106°F
99. Scrotal sac temperature of a bull compared to body temperature is :
- (A) Less  
(B) Variable  
(C) More  
(D) Equal
100. The earliest pregnancy diagnosis test for bovine is :
- (A) Rectal Examination  
(B) Progesterone Assay  
(C) Ultrasound  
(D) Radiography
101. The suture pattern is commonly used to close the skin of cattle following a rumenotomy :
- (A) Simple interrupted  
(B) Simple continuous  
(C) Interrupted horizontal mattress  
(D) Continuous horizontal mattress



102. Which of the following is an absorbable suture material ?

- (A) Polydioxanone
- (B) Prolene
- (C) Silk
- (D) Cotton

103. The type of wound healing in which granulation tissue forms, filling of the defect, is known as :

- (A) First intention
- (B) Second intention
- (C) Third intention
- (D) Fourth intention

104. While administering epidural anaesthesia, the anaesthetic solution is injected into :

- (A) Subarachnoid space
- (B) Extradural space
- (C) Spinal cord
- (D) Subdural space

105. In a dog showing abdominal breathing, short gasping breaths and tucked up abdomen, the most logical thing to suspect would be :

- (A) Diaphragmatic hernia
- (B) Interstitial pneumonia
- (C) Bronchopneumonia
- (D) Pneumothorax

106. Once under anaesthesia, dilated pupils indicate :

- (A) An adequate plane of anaesthesia
- (B) Inadequate plane of anaesthesia
- (C) Excitatory stage
- (D) Impending respiratory arrest

107. Infectious disease can spread from farm through inanimate objects called as :

- (A) Reservoirs
- (B) Carriers
- (C) Fomites
- (D) Machines

108. The exposed and non-exposed groups are compared for the causation of a disease in which studies ?

- (A) Case-control
- (B) Experimental
- (C) Cross-sectional
- (D) None of these

109. Which of the following is not an immuno-diagnostic test ?

- (A) PCR
- (B) HA & HI
- (C) ELISA
- (D) Serum plate agglutination test

110. In cohort epidemiological studies, the word "cohort" means :

- (A) Population
- (B) Group
- (C) Risk
- (D) Variable

111. The occasional occurrence of a disease in a population is called as :

- (A) Epidemic
- (B) Outbreak
- (C) Pandemic
- (D) Sporadic

112. The nosocomial infections are acquired from :

- (A) Plants
- (B) Hospital
- (C) Animals
- (D) Doctors

113. In an epidemiological study the incidence of disease in females is more than that of males but the prevalence is equal in both. It indicates :

- (A) Case fatality is more in female
- (B) Mortality in males is higher
- (C) The disease is of less duration in males
- (D) Females harbour disease for a longer duration

114. The antibody that is first formed after infection is an :
- (A) IgG
  - (B) IgM
  - (C) IgD
  - (D) IgE
115. Monoclonal antibodies are produced by :
- (A) Hybridoma technology
  - (B) Biotechnology
  - (C) Fermentation Technology
  - (D) None of these
116. Antibody present in colostrums is :
- (A) IgG
  - (B) IgA
  - (C) IgM
  - (D) IgE
117. Anthrax vaccine is prepared by :
- (A) An Attenuated bacilli
  - (B) Killing the bacilli
  - (C) Live bacilli
  - (D) None of these
118. Examples for cell-mediated immunity are :
- (A) Tuberculin type
  - (B) Contact dermatitis
  - (C) Granulomatous
  - (D) All of these
119. Which antibody class is majorly involved in mucosal immunity ?
- (A) IgY
  - (B) IgA
  - (C) IgD
  - (D) IgE
120. Infection by Coxiella results in a disease called :
- (A) Q fever
  - (B) Coxiellosis
  - (C) Brucellosis
  - (D) None of these
121. Prokaryotes are distinguished from eukaryotes by their :
- (A) Phospholipid plasma membrane
  - (B) Cytoplasm with ribosomes
  - (C) Nucleoid instead of the nucleus
  - (D) Membrane bound organelles

122. Which of the following is not included in internal fixation of the fractures ?

- (A) Plaster cast application
- (B) Application of screws
- (C) Intramedullary Pinning
- (D) Bone plating

123. Transformation of one cell type to another cell type within the same germ layer is known as :

- (A) Hyperplasia
- (B) Dysplasia
- (C) Anaplasia
- (D) Metaplasia

124. The simple fracture of midshaft of the radius bone in a pup can be treated by :

- (A) Velpaue sling
- (B) Ehmer sling
- (C) Robert-Jones bandage
- (D) Bone plating

125. Bunny hopping of hind limbs is seen in dogs affected with :

- (A) Fracture

(B) Arthritis

(C) Luxation

(D) Ligament injury

126. Death due to cobra envenomation is due to :

- (A) Acute nephrosis
- (B) Hemolysis
- (C) Respiratory arrest
- (D) Hypotension

127. Deficiency of following in sheep predisposes to copper toxicity :

- (A) Lead
- (B) Molybdenum
- (C) Mercury
- (D) Zinc

128. Consumption of raw or improperly cooked fish can lead to infection with :

- (A) **Fasciolopsis buski**
- (B) **Paragonimus westermanii**
- (C) **Diphyllobothrium latum**
- (D) **Eurytrema pancreaticum**

129. The amphistome species that has the bile ducts as the site of predilection is :

- (A) **Gastrothylax**
- (B) **Fischoederius**
- (C) **Cotylophoron**
- (D) **Gigantocotyle**

130. Goose stepping in pigs is related to deficiency of :

- (A) Pyridoxine
- (B) Biotin
- (C) Pantothenic acid
- (D) Manganese

131. Which of the following does not allow observation of living cells ?

- (A) Brightfield Microscope
- (B) Darkfield Microscope
- (C) Phase contrast microscope
- (D) Fluorescent microscope

132. Which of the following drug is used to treat fungal infections ?

- (A) Erythromycin

- (B) Penicillin
- (C) Amphotericin
- (D) Quinine

133. Which organism is considered an index of faecal pollution of drinking water supplies ?

- (A) Rota Virus
- (B) E. coli
- (C) Salmonella spp.
- (D) Hepatitis E virus

134. Protective mechanisms used by Staphylococcus bacteria to survive in the host may be :

- (A) Capsule
- (B) M protein
- (C) Various enzymes
- (D) All of these

135. The drug of choice for the treatment of babesiosis in crossbred cattle is :

- (A) Imidocarb dipropionate
- (B) Ciprofloxacin
- (C) Oxytetracycline
- (D) Metronidazole

136. Which of the following organisms gain access to bovine udder during milking ?

- (A) Staphylococcus aureus
- (B) E. coli
- (C) Pseudomonas
- (D) Klebsiella

137. Signs of equine infectious anemia include :

- (A) Intermittent fever and oedema of the ventral abdomen and legs
- (B) Severe, persistent diarrhoea
- (C) Frequent urination and urine containing large quantities of blood
- (D) Bleeding from the body orifices

138. Equine glanders is caused by :

- (A) Burkholderia mallei
- (B) Burkholderia pseudomallei
- (C) Burkholderia cepaciae
- (D) Burkholderia thailandensis

139. The most likely diagnosis for paresis immediately the following calving in a Nilli Ravi buffalo is :

- (A) Ketosis
- (B) Hypomagnesemia
- (C) Milk fever
- (D) Endotoxaemia

140. The drug of choice in paracetamol (acetaminophen) toxicity is :

- (A) Adrenaline
- (B) N-acetylcysteine
- (C) Dexamethasone
- (D) Physostigmine

141. Which among the following is the best indicator of active muscle damage ?

- (A) Creatine Kinase (CK)
- (B) Aspartate amino-transferase (AST)
- (C) Lactate dehydrogenase (LDH)
- (D) Alanine amino-transferase (ALT)

142. Which of the following antimicrobial is effective against beta-lactamase producing anaerobic bacteria ?

- (A) Penicillin
- (B) Cephalexin
- (C) Ceftiofur
- (D) Metronidazole

143. The capacity of an agent to cause disease in a susceptible host defines its :

- (A) Virulence
- (B) Pathogenicity
- (C) Infectivity
- (D) Aggressiveness

144. Which of the following is an infectious but not a contagious disease ?

- (A) Leptospirosis
- (B) Tetanus
- (C) Brucellosis
- (D) Mucosal disease complex

145. A scald is an injury caused by :

- (A) Hot liquids

- (B) Steam
- (C) Both (A) and (B)
- (D) None of these

146. Which of the following is an example of cestodes ?

- (A) *Trichuris vulpis*
- (B) *Isospora felis*
- (C) *Ancylostoma caninum*
- (D) *Dipylidium caninum*

147. Commonly used abbreviation in prescription writing 'BID' means :

- (A) Give as required
- (B) Give thrice a day
- (C) Give twice a day
- (D) Mix well before giving

148. A complete blood count include :

- (A) WBC, RBC, HB, HCT and DLC
- (B) RBC, WBC, Total solids and clotting time
- (C) WBC, DLC and clot retraction time
- (D) WBC, DLC and BUN

149. Which antibiotic is the best treatment for canine ehrlichiosis ?

- (A) Penicillin G
- (B) Erythromycin
- (C) Ceftiofur
- (D) Doxycycline

150. Treatment of choice for the transmissible canine venereal tumour is :

- (A) Vincristine sulphate
- (B) Adriamycin
- (C) Cyclophosphamide
- (D) Vinblastine

151. A month-old rottweiler pup is presented to you with protracted vomiting, dehydration, bloody diarrhoea of a day old standing. The vaccination status of the pup was not current. Your most likely diagnosis is :

- (A) Canine parvovirus infection
- (B) Garbage poisoning

- (C) Canine hepatitis
- (D) Canine herpes virus infection

152. The major cause of hypochromic microcytic anaemia is :

- (A) Iron and copper deficiency
- (B) Thiamine and manganese
- (C) Selenium and folic acid
- (D) Folic acid and B<sub>12</sub> deficiency

153. A deficiency of which of the following vitamins most likely would cause central nervous signs in cats ?

- (A) Riboflavin
- (B) Niacin
- (C) Thiamine
- (D) Pantothenic acid

154. The best site for the collection of CSF in canine is :

- (A) Sub-occipital puncture
- (B) Lumbo-sacral puncture
- (C) Sacro-coccygeal puncture
- (D) Thoraco-lumbar puncture



155. Which of the following cells are diagnostic hallmarks of immune-mediated hemolytic anaemia ?

- (A) Leptocytes
- (B) Spherocytes
- (C) Histiocytes
- (D) Schizocytes

156. A 7-years-old male German Shephard is presented to you for jaundice and ascities. Laboratory investigations revealed : SGPT (ALT) 792 mg/dL ; SAP, 1500 mg/dL ; Total Bilirubin 9 mg/dL ; Albumin, 1.6 mg/dL; globulin, 4.9 mg/dL. The most likely diagnosis is :

- (A) Hepatic lymphosarcoma
- (B) Carcinomatosis
- (C) Liver lobe torsion
- (D) Hepatic cirrhosis

157. What of the following is the most common skin tumor affecting horses ?

- (A) Squamous cell carcinoma

- (B) Viral papillomatosis
- (C) Basal cell carcinoma
- (D) Melanoma

158. Enucleation may be required to correct :

- (A) Third eyelid prolapsed
- (B) Penile prolapsed
- (C) Proptosis of the eye
- (D) Aural hematoma

159. Which of the following is not completely removed in an ovariectomy ?

- (A) Broad ligament
- (B) Ovaries
- (C) Uterine horns
- (D) Oviducts

160. X-rays have their greatest harmful effects upon :

- (A) Gonadal tissue
- (B) Skin
- (C) Lung
- (D) Bone

161. The probable outcome of a disease is known as :

- (A) Recovery
- (B) Prognosis
- (C) Tentative diagnosis
- (D) Sequelae

162. Equine herpes virus infection is also termed as :

- (A) Equine abortion virus
- (B) Equine arteritis
- (C) Equine rhinopneumonitis
- (D) None of these

163. Major lungworms of the horses are :

- (A) Anoplocephala species
- (B) Gastrophilus species
- (C) **Parascaris equorum**
- (D) **Dictyocaulus arnfieldi**

164. Epidural anesthesia is contra indicated in :

- (A) Infection
- (B) Hypotension
- (C) Hemorrhages
- (D) All of these

165. Which of the following agents can be used as both an antiseptic as well as a disinfectant ?

- (A) Quaternary ammonium compounds
- (B) Mercurial compounds
- (C) Isopropyl alcohol
- (D) Formaldehyde

166. Why is it important to minimize the amount of dead space when suturing ?

- (A) To decrease the chance of infection
- (B) To decrease the chance of seroma formation
- (C) To improve hemostasis
- (D) To minimize necrosis

167. Which of the following is not a factor influencing the formation of exuberant granulation tissue ?

- (A) Presence of infection
- (B) Amount of missing tissue
- (C) Depth of the wound
- (D) Location of the wound

168. The most important cause of allotropicphagia in animals is :
- (A) Calcium deficiency
  - (B) Protein deficiency
  - (C) Phosphorus deficiency
  - (D) Vitamin D deficiency
169. The nonsteroidal anti-inflammatory drug(NSAID) that is extremely toxic to cats is :
- (A) Aspirin
  - (B) Acetaminophen
  - (C) Carprofen
  - (D) Flunixin
170. Puppies born via a cesarean section that is not breathing well may benefit from \_\_\_\_\_ drops administered sublingually.
- (A) Dobutamine
  - (B) Digitalis
  - (C) Doxapram
  - (D) Diazepam
171. Loop diuretics such as furosemide :
- (A) Cause dehydration in normal animals
  - (B) Cannot be used simultaneously with ACE inhibitors
  - (C) Are unsafe for use in animals with pulmonary edema
  - (D) May cause hypokalemia with chronic use
172. Which reproductive hormone can produce pyometra in dogs ? It is also used in the pregnant mare in an attempt to keep it from prematurely aborting its fetus.
- (A) Estrogen
  - (B) Progesterone
  - (C) Gonadotropin
  - (D) Prostaglandin
173. A client calls to say that his horse is sweated up, keeps looking at his belly, and is trying to roll ; the veterinarian will most likely find that the horse is suffering from :
- (A) Tetanus
  - (B) Colic
  - (C) Strangles
  - (D) Epistaxis

174. What drug readily penetrates the blood-brain barrier and achieves therapeutic concentrations of antibiotics in the central nervous system ?

- (A) Amoxicillin
- (B) Enrofloxacin
- (C) Oxytetracycline
- (D) Chloramphenicol

175. A wet-to-dry bandage is best for what type of wounds ?

- (A) Deep lacerations
- (B) Contaminated wounds that need to be debrided
- (C) Abscesses
- (D) Healing wounds with good granulation tissue

176. Which of these compounds is not found in lactated Ringer solution ?

- (A) Sodium chloride
- (B) Potassium chloride
- (C) Magnesium chloride
- (D) Calcium chloride

177. The common drug used for epidural anaesthesia is :

- (A) Thiopental
- (B) Ketamine
- (C) Propofol
- (D) Lidocaine

178. The fracture is called compound one if :

- (A) The bone is broken into two pieces
- (B) The bone is broken into more than two pieces
- (C) A fractured bone is exposed to the external environment
- (D) Along with bone, there is also damage to muscles

179. Besides skin tenting, one of the best physical signs to assess fluid status is :

- (A) Heart rate
- (B) Respiration
- (C) Pulse
- (D) Weight

180. The disease caused by Parvovirus causes in cats ?

- (A) Panleukopenia
- (B) Rhinotracheitis
- (C) Infectious peritonitis
- (D) Infectious anaemia

181. What clinical condition is often mistaken for obesity and may conceal malnutrition ?

- (A) Diarrhoea
- (B) Ascites
- (C) Anaemia
- (D) Pancreatitis

182. Currant jelly clot indicates :

- (A) Sudden death
- (B) Slow death
- (C) Cannot predict
- (D) None of these

183. Tetrathionate broth is an example for :

- (A) Enriched media

(B) Enrichment media

(C) Sugar media

(D) Indicator media

184. "Hepatitis cysticercosa" in sheep is a condition associated with :

- (A) **Cysticercus bovis**
- (B) **Cysticercus cellulosae**
- (C) **Cysticercus tenuicollis**
- (D) **Cysticercus fasciolaris**

185. The drug of choice for coccidiosis in poultry :

- (A) Sulphaguanidine
- (B) Sulphaquinoxaline
- (C) Phthalyl sulpha thiazole
- (D) Sulphamethyl phenazole

186. The sequel of 'Broken wind / chronic alveolar emphysema' :

- (A) Hypertrophy of left auricle
- (B) Hypertrophy of right auricle
- (C) Hypertrophy of left ventricle
- (D) Hypertrophy of right ventricle

187. The ability of a screening test to correctly identify individuals in a population that are truly free of the disease is a measure of the tests :

- (A) Specificity
- (B) Sensitivity
- (C) Reliability
- (D) None of these

188. The gastrocnemius muscle is innervated by :

- (A) Peroneal nerve
- (B) Gluteal nerve
- (C) Sciatic nerve
- (D) Tibial nerve

189. Cranial drawer sign is characteristic of :

- (A) Elbow dysplasia
- (B) Hip dysplasia
- (C) Cranial Cruciate ligament rupture
- (D) Patellar luxation

190. Measley beef is caused by the larval stages of :

- (A) *Cysticercus cellulosae*
- (B) *Taenia solium*
- (C) *Taenia saginata*
- (D) *Cysticercus bovis*

191. Agranular leucocyte in the blood is :

- (A) Eosinophil
- (B) Neutrophil
- (C) Lymphocyte
- (D) Basophil

192. Which among the following is not occupational zoonoses ?

- (A) Wool sorter's disease
- (B) Toxoplasmosis
- (C) Sugar cane workers disease
- (D) Rice field workers disease

193. Which among the animals are highly susceptible to salt poisoning ?

- (A) Cattle and Buffaloes
- (B) Sheep and Goat
- (C) Pigs and Poultry
- (D) Dog and Cat

194. Epithelioid cells within granulomas are derived from which of the following ?
- (A) Plasma cells
  - (B) Macrophages
  - (C) Lymphocytes
  - (D) Eosinophils
195. Which among the following diseases is vertically transmitted to newly hatched chicks ?
- (A) Fowl pox
  - (B) Mycoplasmosis
  - (C) Aflatoxicosis
  - (D) Caecal coccidiosis
196. Tension band wiring technique is used for treatment of :
- (A) Simple fracture
  - (B) Compound fracture
  - (C) Slab fracture
  - (D) Avulsion fracture
197. Lumpy skin disease virus belongs to the genus :
- (A) Leporipoxvirus
  - (B) Orthopoxvirus
  - (C) Suipoxvirus
  - (D) Capripoxvirus
198. Type-I hypersensitivity reaction is mediated by :
- (A) Ig G
  - (B) Ig E
  - (C) Ig M
  - (D) Ig D
199. The space between the duramater and arachnoid is called :
- (A) Epidural
  - (B) Subdural
  - (C) Subarachnoid
  - (D) Cisterna magna
200. The characteristic convulsion caused by strychnine is :
- (A) Myoclonic
  - (B) Tonic-clonic convulsion
  - (C) Atonic
  - (D) D. Tonic

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## SPACE FOR ROUGH WORK

SEAL