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# UKPSC VO

**Previous Year Paper  
(Veterinary Science) 22  
Feb, 2024**



पेपर सील खोले बगैर इस तरफ से उत्तर शीट को बाहर निकालें ।  
Without opening the Paper seal take out Answer Sheet  
from this side.

901162

VSE



परीक्षा का वर्ष : 2024

प्रश्न-पुस्तिका

प्रश्न-पुस्तिका शृंखला

B

अपना अनुक्रमांक सामने अंकों में  
बॉक्स के अन्दर लिखें  
शब्दों में

प्रश्नपत्र-II

पशु चिकित्सा विज्ञान

VETERINARY SCIENCES

समय : 03:00 घंटे  
पूर्णांक : 300

Time : 03:00 Hours  
Maximum Marks : 300

प्रश्नों के उत्तर देने से पहले नीचे लिखे अनुदेशों को ध्यान से पढ़ लें ।  
महत्त्वपूर्ण निर्देश

1. प्रश्न-पुस्तिका के कवर पेज पर अनुक्रमांक के अतिरिक्त कुछ न लिखें ।
2. यदि किसी प्रश्न में किसी प्रकार की कोई मुद्रण या तथ्यात्मक त्रुटि हो तो प्रश्न के अंग्रेजी तथा हिन्दी रूपान्तरों में से अंग्रेजी रूपान्तर को मानक माना जायेगा ।
3. अभ्यर्थी अपने अनुक्रमांक, विषय-कोड एवं प्रश्न-पुस्तिका की सीरीज का अंकन OMR Sheet में निर्दिष्ट कॉलम में सही-सही करें, अन्यथा उत्तर-पत्रक का मूल्यांकन नहीं किया जायेगा ।
4. अभ्यर्थी रफ कार्य हेतु प्रश्न-पुस्तिका (बुकलेट) के अन्त में दिये गये पृष्ठों का ही केवल उपयोग करें । अलग से इस हेतु वर्किंग शीट उपलब्ध नहीं करायी जायेगी । अभ्यर्थी प्रश्न-पुस्तिका के अंदर रफ कार्य के अतिरिक्त कुछ भी न लिखें ।
5. इस प्रश्न-पुस्तिका में 150 प्रश्न (वस्तुनिष्ठ प्रकार) हैं । प्रत्येक प्रश्न के चार वैकल्पिक उत्तर, प्रश्न के नीचे (a), (b), (c) एवं (d) दिये गये हैं । इन चारों में से केवल एक ही सही उत्तर है । जिस उत्तर को आप सही या सबसे उचित समझते हैं, उत्तर-पत्रक (ओ.एम.आर. आंसर शीट) में उसके अक्षर वाले वृत्त को काले अथवा नीले बॉल प्वाइंट पेन से पूरा काला/नीला कर दें ।
6. प्रश्न-पुस्तिका में अंकित सभी प्रश्न अनिवार्य हैं और प्रत्येक प्रश्न के समान अंक हैं । आपके जितने उत्तर सही होंगे, उन्हीं के अनुसार अंक दिये जायेंगे ।
7. आयोग द्वारा आयोजित की जाने वाली वस्तुनिष्ठ प्रकृति की परीक्षाओं में ऋणात्मक मूल्यांकन (Negative Marking) पद्धति अपनायी जायेगी । अभ्यर्थी द्वारा प्रत्येक प्रश्न हेतु दिए गए गलत उत्तर के लिए या अभ्यर्थी द्वारा एक प्रश्न के एक से अधिक उत्तर देने के लिए (चाहे दिए गए उत्तर में से एक सही ही क्यों न हो), उस प्रश्न के लिए निर्धारित अंकों का एक-चौथाई दण्ड के रूप में काटा जाएगा । दण्ड स्वरूप प्राप्त अंकों के योग को कुल प्राप्तांक में से घटाया जाएगा ।
8. अपने उत्तर आपको अलग से दिये गये ओ.एम.आर. उत्तर-पत्रक में अंकित करने हैं । आपके द्वारा सभी उत्तर केवल ओ.एम.आर. उत्तर-पत्रक पर ही दिया जाना अनिवार्य है । ओ.एम.आर. उत्तर-पत्रक के अतिरिक्त अन्य कहीं पर दिया गया उत्तर मान्य नहीं होगा ।
9. ओ.एम.आर. उत्तर-पत्रक पर कुछ लिखने के पूर्व उसमें दिये गये सभी अनुदेशों को सावधानीपूर्वक पढ़ लें । ओ.एम.आर. उत्तर-पत्रक में वांछित सूचनाओं को अभ्यर्थी द्वारा परीक्षा प्रारम्भ होने से पूर्व भरा जाना अनिवार्य है ।
10. ओ.एम.आर. उत्तर-पत्रक तीन प्रतियों (मूल प्रति, कार्यालय प्रति एवं अभ्यर्थी प्रति) में है । परीक्षा समाप्ति के उपरान्त अभ्यर्थी ओ.एम.आर. उत्तर-पत्रक की मूल प्रति एवं कार्यालय प्रति अन्तरीक्षक (Invigilator) को हस्तगत करने के उपरान्त ही कक्ष छोड़ें, अन्यथा की स्थिति में आयोग द्वारा नियमानुसार कार्यवाही की जाएगी । ओ.एम.आर. उत्तर-पत्रक की अभ्यर्थी प्रति, अभ्यर्थी अपने साथ ले जा सकते हैं ।
11. यदि आपने इन अनुदेशों को पढ़ लिया है, इस पृष्ठ पर अपना अनुक्रमांक अंकित कर दिया है और ओ.एम.आर. उत्तर-पत्रक पर वांछित सूचनाएं भर दी हैं, तो तब तक प्रतीक्षा करें, जब तक आपको प्रश्न-पुस्तिका खोलने को नहीं कहा जाता ।
12. ओ.एम.आर. उत्तर-पत्रक (O.M. पर ही किया जायेगा ।
13. प्रश्न-पुस्तिका (Question Book) ओ.एम.आर. उत्तर-पत्रक पर प्रश्न-पुस्तिका क्रमांक एवं प्रश्न-पुस्तिका का साराज काड (A, B, C, D) का प्रावध सावधानीपूर्वक कर । आप उत्तरपत्रक कार्यवाही नहीं की जाती है, तो उसके लिए अभ्यर्थी स्वयं जिम्मेदार होगा ।

जब तक कहा न जाय इस प्रश्न-पुस्तिका को न खोलें ।

महत्त्वपूर्ण : प्रश्न-पुस्तिका खोलने पर तुरन्त जांच कर देख लें कि प्रश्न-पुस्तिका के सभी पेज भली-भाँति छपे हुए हैं । यदि प्रश्न-पुस्तिका सीलबंद न हो अथवा कोई अन्य कमी हो, तो अन्तरीक्षक को दिखाकर उसी सीरीज की दूसरी प्रश्न-पुस्तिका प्राप्त कर लें ।

1. Kyasanur forest disease is caused by :

- (a) Flavivirus (b) Reovirus (c) Orbivirus (d) Rotavirus

2. Wooden tongue is seen in one of the following diseases in cattle :

- (a) Actinomycosis (b) Actinobacillosis (c) Campylobacteriosis (d) Pasteurellosis

3. Salpingitis is the inflammation of

- (a) Ovary (b) Oviduct (c) Uterus (d) Ureter

4. One of the best techniques to identify the species of animal in meat sample is :

- (a) Gel diffusion (b) Staining technique (c) PCR (d) Histopathology

5. Which one of the following is a food borne intoxication ?

- (a) Botulism (b) Anthrax (c) Brucellosis (d) Tuberculosis

6. Human is dead end host for which of the following zoonosis ?

- (a) West Nile virus (b) Hepatitis virus (c) Adeno virus (d) Rota virus

7. In which year, Rinderpest disease was declared as eradicated from India ?

- (a) 2003 (b) 2004 (c) 2005 (d) 2006

8. OIE is renamed as :

- (a) World Organization for Veterinary Health  
(b) World Organization for Population Health  
(c) World Organization for Animal Health WOA  
(d) Not yet renamed

9. India's first indigenous homologous line-attenuated Lumpy Skin Disease (LSD) vaccine was made by using a local LSD virus strain from :

- (a) Delhi (b) Hisar (c) Ranchi (d) Bareilly

10. Pigs are intermediate host of :

- (a) Taenia Solium (b) Schistosoma Mansosni  
(c) Taenia Sominata (d) All of these

11. One person can import how many dogs at a time subject to production of required health certificate from country of origin :

- (a) One (b) Two (c) Ten (d) Hundred

12. Case fatality rate is total number of death due to a particular disease divided by total number of cases due to same disease multiplied by :

- (a) 10 (b) 100 (c) 1000 (d) 10000

13. Pandemic is a disease that occurs in :

- (a) One district (b) One state (c) One country (d) All continents

14. Disease that occurs in a population with a usual or expected rate is :

- (a) Epidemic (b) Endemic (c) Pandemic (d) Sporadic

15. An infectious disease transmissible under natural conditions between vertebrate animals and man is called :  
 (a) Epornithic (b) Exotic (c) Opportunistic  (d) Zoonosis
16. Nosocomial infection is :  
 (a) Village acquired (b) District acquired  
 (c) Hospital acquired (d) Home acquired
17. Dracunculiasis is caused by :  
 (a) Bacteria (b) Virus (c) Fungus  (d) Parasite
18. Which of the following can be used for bioterrorism ?  
 (a) Anthrax spores (b) Mastitis pathogens  
 (c) F.M.D. virus (d) Vesicular stomatitis virus
19. What concentration of ethyl or isopropyl alcohol has maximum germicidal action ?  
 (a) 35% (b) 50%  (c) 70% (d) 100%
20. Which gas is used for sterilization of heat sensitive instruments ?  
 (a) CO<sub>2</sub> (b) N<sub>2</sub>O  (c) Ethylene dioxide (d) Helium
21. Lembert's and Cushing's suture patterns are used for closure of :  
 (a) Visceral organs (b) Peritonium (c) Skeletal muscles (d) Skin
22. Profound amnesia, superficial analgesia and ketalepsy are characteristics of :  
 (a) Ketamine anaesthesia (b) Thiopentone anaesthesia  
 (c) Propofol anaesthesia (d) Nuerolept analgesia
23. Wave length range of diagnostic X-rays is :  
 (a) 1 - 10 Å  (b) 0.1 - 0.5 Å (c) 1 - 100 Å (d) 2 - 20 Å
24. If FFD is reduced to half of original, the radiographic density will increase  
 (a) Two times (b) Six times  (c) Four times (d) Eight times
25. Which of the following is not radiation safety device ?  
 (a) Lead apron (b) Lead goggles  (c) Thyroid shield (d) Cassette protector
26. Image of fluid containing structure on ultrasound examination appear as :  
 (a) Black or hyperechoic  (b) Black or anechoic  
 (c) ~~Bright~~ or hyperechoic (d) ~~Bright~~ or anechoic
27. Intervertebral disc prolapse can be diagnosed by :  
(a) Myelography  (b) Sialography (c) Plain radiography (d) Ultrasonography
28. Pre-existing bone conditions such as tumor, osteomyelitis, cyst or osteoporosis may result in :  
 (a) Deferred fracture  (b) Pathological fracture  
 (c) Stress fracture (d) Simple single fracture

29. Which of the following is not an external fracture fixation method ?  
 (a) POP cast (b) Intramedullary pinning  
 (c) Fiber glass cast (d) Thomas splint
30. Fluorescein dye is commonly used to diagnose :  
 (a) Conjunctivitis (b) Corneal ulcer (c) Cataract (d) Glaucoma
31. Constipation, recurrent tympany, brisket edema and abducted elbow in buffalo is indicative of :  
 (a) Rumen impaction (b) Foreign body syndrome  
 (c) Rumen collapse (d) Abomasal displacement
32. Which of the following is cut/sectioned for surgical correction of upward fixation of patella ?  
 (a) Middle or cranial patellar ligament (b) Medial patellar ligament MPD  
 (c) Lateral patellar ligament (d) Lateral collateral ligament
33. Enlarged Jugular veins, brisket edema, positive wither pinch, grunting while walking and anorexia in buffalo is indicative of :  
 (a) Diaphragmatic hernia (b) Traumatic pericarditis  
 (c) Abomasal displacement (d) Intestinal obstructions
34. Pipe stem faeces are generally observed due to infection of which of the following parasite ?  
 (a) Babesia bovis (b) Babesia major (c) Babesia divergens (d) Babesia bigemina
35. Mischief by killing or laming the animal is punishable under which of the following section of IPC ?  
 (a) 420 (b) 427 (c) 428 and 429 (d) 430
36. Which of the following is dose rate of 10% sodium iodide (I/V) to treat Actinobacillosis in cattle ?  
 (a) 1 gm/20 kg B.wt. (b) 1 gm/12 kg B.wt.  
 (c) 1 gm/21 kg B.wt. (d) 1 gm/10 kg B.wt.
37. For which of the following disease of sheep, Fasciolosis may be a predisposing factor for its occurrence ?  
 (a) Infectious necrotic hepatitis (b) Malignant oedema  
 (c) Braxy (d) Enterotoxemia
38. Button ulcers in colon is characteristic post-mortem finding in which of the following diseases of swine ?  
 (a) Classic swine fever (b) Vesicular exanthema in swine  
 (c) African swine fever (d) FMD in swine
39. Consolidation of lungs with a typical marbled appearance is characteristic necropsy lesion of which of the following diseases ?  
 (a) Pneumonic pasteurellosis (b) Enzootic pneumonia  
 (c) Contagious bovine pleuro-pneumonia (d) Lungworm pneumonia
40. Which of the following is the common cause of death in horses in acute form of strangles ?  
 (a) Cardiac arrest (b) Asphyxia (c) Septicemia (d) Inanition

41. Which of the following parasitic infections may occur through colostral transmission ?  
 (a) Toxocara infection in calves      (b) Fasciola infection in lambs  
 (c) Strongyle infection in foals      (d) Amphistomes in kids (Caprine)
42. Which of the following groups of organism is associated with "Pink eye disease" ?  
 (a) Bacteria      (b) Virus       (c) Rickettsia      (d) Protozoa
43. Which of the following disease of horse has venereal transmission ?  
 (a) Dourine      (b) Equine viral Rhinopneumonitis  
 (c) Equine influenza       (d) Equine babesiosis
44. 'Fistulous wither' in horses is associated with which of the following disease condition ?  
 (a) Brucellosis      (b) Strangles  
 (c) Glanders      (d) Epizootic Lymphangitis
45. Which of the following bacterial organism is responsible for fowl cholera in poultry ?  
 (a) Clostridium botulinum       (b) Pasteurella multocida  
 (c) Salmonella species      (d) E. Coli
46. Biphase fever is most common clinical finding in dogs in which of the following disease ?  
 (a) Infectious canine hepatitis       (b) Canine distemper  
 (c) Parvo viral enteritis      (d) Leptospirosis
47. In which body part of a cattle died due to rabies, the 'negri bodies' will be looked for ?  
 (a) Cerebrum       (b) Cerebellum      (c) Spinal cord      (d) Site of dog bite
48. Nutritional deficiency of which of the following is attributed as a cause of 'white muscle' disease in lambs ?  
 (a) Selenium      (b) Phosphorus       (c) Magnesium      (d) Vitamin-A
49. Sulphur granules are observed in the pus formed in which of the following disease ?  
 (a) Actinobacillosis      (b) Strangles  
 (c) Staphylococcal infection in udder      (d) Clostridial infection
50. Marked induration of udder, hypertrophy and enlargement of supra-mammary lymphnodes in cows are characteristics of which of the following types of mastitis ?  
 (a) Mycoplasmal mastitis      (b) Staphylococcal mastitis  
 (c) Tuberculous mastitis      (d) Coliform mastitis
51. In which of the following diseases, toxins are secreted in the cows' milk ?  
 (a) Aflatoxicosis      (b) Black leg      (c) Enterotoxemia      (d) Tetanus
52. 'Goose Stepping gait' in pigs occur due to deficiency of which of the following ?  
 (a) Thiamine       (b) Pantothenic acid      (c) Pyridoxine      (d) Riboflavin
53. Garlic like odour in vomits of pigs is observed in poisoning due to :  
 (a) Urea       (b) Phosphorus      (c) Copper       (d) Nitrate
54. Normal pH of rumen liquor in cattle range from :  
 (a) 5.2 - 6.2       (b) 6.2 - 7.2      (c) 7.2 - 8.2      (d) 4.2 - 5.2

55. Repeated administration of isoflupredone acetate to dairy cows suffering from bovine ketosis causes which of the following ?  
 (a) Hyperkalaemia (b) Hypokalaemia (c) Hypernatraemia (d) Hyponatraemia
56. A characteristic odour is usually detectable in breath and milk in which of the following disease ?  
 (a) Ketosis in cows (b) Milk fever in cows  
 (c) Lactation tetany in cows (d) Post-parturient haemoglobinuria in buffaloes
57. "Steely Wool" in sheep is characteristic symptom of deficiency of which of the following ?  
 (a) Cobalt (b) Manganese (c) Copper (d) Iodine
58. Neonatal hypoglycemia is common in :  
 (a) Calves (b) Lambs (c) Piglets (d) Puppies
59. 'Sandpapery' sound is associated with which of the following ?  
 (a) wheezes (b) crackles (c) pleuritic friction (d) None of these
60. The number of days a Swine conceptus takes to enter into uterus after fertilization is :  
 (a) 2-3 days (b) 4-5 days (c) 6-7 days (d) 8-9 days
61. Which of the following animal has least fertile life of ova ?  
 (a) Cow (b) Horse (c) Sheep (d) Sow
62. Diffused placenta is found in  
 (a) Cow (b) Bitch - *Haemochorial / Endotheliochorial* (c) Sow (d) Doe
63. Summer anestrus is mainly observed in :  
 (a) Cow (b) Goat (c) Mare (d) Buffalo
64. In bulls, normal sperm concentration is :  
 (a) 400-600 million/ml (b) 800-2000 million/ml  
 (c) 100-200 million/ml (d) 200-400 million/ml
65. In cow, ovulation occurs at :  
 (a) 10-12 hours after onset of estrus (b) 10-12 hours after end of estrus  
 (c) 10-12 hours before onset of estrus (d) 10-12 hours before end of estrus
66. In cow, nymphomania condition is observed due to :  
 (a) Ovarian hypoplasia (b) Follicular cyst  
 (c) Paraovarian cyst (d) Luteal Cyst
67. 'Sigmoid flexure' is located pre-scrotal in :  
 (a) Bull (b) Boar (c) Ram (d) Stallion
68. In which of the following condition, animal strain, crouch and showed illness after having a natural service ?  
 (a) White heifer disease (b) Uterus unicornis  
 (c) Freemartin (d) Uterus didelphys

69. PSP dye test is used to detect one of the following conditions :

- (a) Patency of oviduct (b) Metritis  
(c) Ovarian hypoplasia (d) Cervicitis

70. Earliest pregnancy can be diagnosed in cows by ultrasonography :

- (a) 15 days (b) 24 days (c) 35 days (d) 20 days

71. Perforatorium of sperm cell is formed from :

- (a) Acrosome and nuclear membrane (b) Acrosome and plasma membrane  
(c) Plasma membrane only (d) Nuclear membrane only

72. "Red nose" is also known as :

- (a) Mycoplasmosis (b) IBR-IPV  
(c) Brucellosis (d) BVD

73. For the treatment of uterine torsion in cow, animal is rotated on :

- (a) Same side of torsion  
(b) Opposite side of torsion  
(c) Depends on health of animal  
(d) First rotation on same side of torsion and second opposite side

74. At which temperature of neck of liquid nitrogen cylinder, the spermatozoa kept in semen straws are at risk :

- (a)  $-90^{\circ}\text{C}$  (b)  $-80^{\circ}\text{C}$  (c)  $-100^{\circ}\text{C}$  (d)  $-110^{\circ}\text{C}$

75. In mare, at the time of artificial insemination semen is deposited in :

- (a) uterine body (b) cervix (c) vagina (d) uterine horn

76. In bitch main cause of dystocia is :

- (a) Uterine torsion (b) Primary uterine inertia  
(c) Secondary uterine inertia (d) Uterine infection

77. Concentration of glycerol for freezing of boar semen is :

- (a) 5% (b) 2% (c) 10% (d) 4%

78. In mare, shape of the ovaries is :

- (a) Almond (b) Oval (c) Bean (d) Mulberry

79. In bovine, positive sign of pregnancy is :

- (a) Increase in size of uterus (b) Persistence corpus luteum  
(c) Slipping of fetal membranes (d) Anestrous

80. Number and shape of Caruncle in ewe is :

- (a) 90 - 120, convex (b) 80 - 90, concave  
(c) 80 - 90, convex (d) 90 - 120 concave

81. In polytocous animal, the weight of each foetus at the time of birth is one of the following post-partum weight of dams :

- (a) 1-3% of dams' weight (b) 5-8% of dams' weight  
(c) 8-10% of dams' weight (d) 10-12% of dams' weight

82. "SIPS" is diagnosed in bitch by presence of cells in uterine cytology
- (a) Red blood cells (b) Syncytial trophoblast cells  
(c) Cornified cells (d) Neutrophils
83. Total sperm abnormalities of the semen from a fertile bull should not exceed :
- (a) 15% (b) 20% (c) 5% (d) 10%
84. Collection of mesenteric lymphnode in 10% formol saline is done for the diagnosis of :
- (a) John's disease (b) Leptospirosis  
(c) Pasteurellosis (d) Brucellosis
85. Which of the following is associated with a fundamental approach in packaging samples from animals for the purpose of protecting of samples ?
- (a) 2 layers (b) 3 layers (c) 4 layers (d) 5 layers
86. Collection of plants, stomach contents, blood and liver is preserved in 1% solution of mercuric chloride for the toxicological examination for ?
- (a) Strychnine poisoning (b) Nitrate poisoning  
(c) HCN poisoning (d) Pesticide poisoning
87. Which of the following chemicals is used for the preservation of urine samples for further laboratory investigations ?
- (a) Benzoic acid (b) Picric acid (c) Citric acid (d) Thymol
88. Wet smears from freshly collected blood are prepared for the diagnosis ?
- (a) Anaplasmosis (b) Babesiosis (c) Trypanosomiasis (d) Theileriosis
89. Increase in which of the following types of cells indicates favourable prognosis in animals ?
- (a) Neutrophils (b) Eosinophils (c) Monocytes (d) Lymphocytes
90. An animal presented with which of the following conditions will show an increased level of serum urea nitrogen and concomitant normal creatinine ?
- (a) Renal azotemia (b) Pre-renal azotemia  
(c) Post-renal azotemia (d) All of these
91. Which of the following is the gold standard diagnostic procedure for liver disease ?
- (a) Liver Function Test (LFT) (b) CT scan  
(c) Liver Biopsy AL (d) Ultrasonography
92. Which of the following arteries is commonly used to record pulse rate in dogs ?
- (a) External maxillary artery (b) Facial artery  
(c) Middle coccygeal artery (d) Femoral artery
93. Freshly voided proglottids in the feces of sheep, that look like boiled rice grains, belong to which of the following parasite ?
- (a) Echinococcus species (b) Ascarids  
(c) Moneizia species (d) Oxyuris species

94. The antiemetic effect of metoclopramide is mediated through :
- Blockade of D-2 receptors in CTZ
  - Blockade of D-2 receptors in Stomach
  - Blockade of D-2 receptor both in CTZ and Stomach
  - Stimulation of D-2 receptor in CTZ and Stomach
95. Which of the following is not a tocolytic ?
- Clenbuterol
  - Ethanol
  - Terbutaline
  - Ergonovine
96. Which of the following is a selective drug to reverse xylazine induced respiratory depression ?
- Doxapram
  - Nikethamide
  - Bemegride
  - Yohimbine
97. Among the following which one is a Class-IV antiarrhythmic drug ?
- Verapamil
  - Amiodarone
  - Sotalol
  - Procainamide
98. Warfarin interferes blood clotting by antagonising the function of which type of vitamin ?
- Vitamin A
  - Vitamin D
  - Vitamin E
  - Vitamin K
99. Bracken fern toxicity causes the deficiency of which vitamin in a cow ?
- Vitamin B12
  - Vitamin B1
  - Vitamin D
  - Vitamin K
100. Which of the following antibiotics produces its action without affecting the protein synthesis of bacteria ?
- Chloramphenicol
  - Oxytetracycline
  - Gentamycin
  - Cycloserine
101. Organophosphate insecticides produce their toxicity by delaying the inactivation of which of the following neurotransmitter ?
- Acetylcholine
  - Epinephrine
  - Serotonin
  - Histamine
102. Which is the major enzyme inhibited in lead toxicity ?
- Delta-Aminolevulinic acid dehydratase
  - Delta-Aminolevulinic acid synthase
  - Ferrochelatase
  - Delta-Aminolevulinic acid dehydratase as well as Ferrochelatase
103. Ratio of LD50 to ED50 (LD50/ED50) is referred as :
- Therapeutic index
  - Therapeutic ratio
  - Safety factor
  - Protective index
104. Which is not the method of anaerobic bacterial cultivation ?
- Candle Jar method
  - Anaerobic Jar method
  - Cocultivation of aerobic bacteria
  - Incubator shaking method
105. Which of the following bacterial species exist in free living form in soil ?
- Pasteurella species
  - Yersinia species
  - Clostridium species
  - Staphylococcus species

106. Which enzyme is produced by many bacteria that helps in spread of pathogens ?  
 (a) Peptidase (b) Hyaluronidase (c) Catalase (d) Peroxidase
107. Genetic recombination in bacteria that involves bacteriophages is called :  
 (a) Transformation (b) Conjugation (c) Transduction (d) Inversion
108. Which is the cause of acute mastitis in cattle ?  
 (a) Streptococcus pyogenes (b) Streptococcus agalactiae  
 (c) Streptococcus dusgalactiae (d) Staphylococcus hyicus
109. What is incubation temperature of Listeria monocytogenes to observe tumbling motility ?  
 (a) 15 °C (b) 25 °C (c) 4 °C (d) 37 °C
110. Which is not a characteristic feature of Bacillus anthracis ?  
 (a) Susceptibility to penicillin (b) Motile  
 (c) Non-haemolytic (d) Arranged in long chains
111. Which organ of dog is commonly associated with the infection of Malassezia pachydermatis ?  
 (a) Eye (b) Ear (c) Throat (d) Intestine
112. Which condition is associated with aflatoxicosis ?  
 (a) Neurotoxicity (b) Pneumonia (c) Hepatotoxicity (d) Nephrotoxicity
113. What is the typical temperature range used in denaturation step of PCR for DNA ?  
 (a) 50-70 °C (b) 68-75 °C (c) 90-96 °C (d) 100-110 °C
114. What is the use of BLAST software ?  
 (a) Comparing DNA sequences with database  
 (b) DNA sequencing  
 (c) RNA sequencing  
 (d) Protein sequencing
115. Which of the following help in opsonization ?  
 (a) Fibrinogen (b) C-reactive protein (c) Haptoglobulin (d) Ceruloplasmin
116. Where are all undifferentiated lymphocytes formed ?  
 (a) Bone marrow (b) Thymus (c) Spleen (d) Lymphnode
117. Interferon gamma is produced by which type of cells ?  
 (a) Th-1 (b) Th-2 (c) B-cells (d) Plasma cells
118. Burkholderia mallei is a major pathogen of which species of animal ?  
 (a) Bovine (b) Caprine (c) Ovine (d) Equine
119. Sabin-Feldman dye test is employed for the diagnosis of :  
 (a) Sarcocystosis (b) Toxoplasmosis (c) Neosporosis (d) Babesiosis
120. Which of the following is an example of an ornate tick ?  
 (a) Hyalomma (b) Boophilus (c) Dermacentor (d) Rhipicephalus
121. Transmission of Babesia bigemina in tick vector is :  
 (a) Transovarian (b) Transtadial (c) Both (a) & (b) (d) None of these

122. Flask shaped ulcers are related to :

- (a) Entamoeba gingivalis (b) Giardia intestinalis  
(c) Entamoeba histolytica (d) None of these

123. Posterior paralysis in horses is due to :

- (a) Babesia equi (b) Babesia caballi (c) Babesia bigemina (d) Babesia major

124. The term Xenodiagnosis is associated with :

- (a) Chaga's disease (b) Sleeping sickness  
(c) (a) and (b) both (d) None of these

125. Punched out necrotic ulcers in abomasum of cattle are seen in :

- (a) Babesiosis (b) Anaplasmosis (c) Theileriosis (d) Coccidiosis

126. Which parasite is responsible for Vitamin B12 deficiency ?

- (a) Diphyllbothrium latum (b) Echinococcus vogeli  
(c) Echinococcus multilocularis (d) None of these

127. The infections transmitted to man from lower vertebrates are termed as

- (a) Zooanthroponoses  $A \rightarrow H$  (b) Anthrozoonoses  $H \rightarrow A$   
(c) Amphixenoses (d) None of these

128. 'Slime balls' is related to the life cycle of

- (a) Dicrocoelium dendriticum (b) Eurytrema pancreaticum  
(c) Both (a) and (b) (d) None of these

129. Eggs in urine are detected for confirmation of which blood fluke ?

- (a) Schistosoma spindale (b) Schistosoma haematobium  
(c) Schistosoma incognitum (d) Schistosoma nasalis

130. Marrasa syndrome is associated with which of the following parasites ?

- (a) Linguatula Serrata (b) Anaplasma marginale  
(c) Both (a) and (b) (d) None of these

131. Dose of Buparvaquone (Butalex) for the treatment of theileriosis in cattle is :

- (a) 2.5 mg/kg B.wt. (b) 5.0 mg/kg B.wt.  
(c) 10.0 mg/kg B.wt. (d) 15.0 mg/kg B.wt.

132. 'Surra' in horses is transmitted by :

- (a) Lice (b) Ticks  
(c) Fleas (d) Haematophagus flies

133. Which of the following is responsible for blindness in poultry ?

- (a) Tunga penetrans (b) Pulex irritans  
(c) Ctenocephalides canis (d) Echidnophaga gallinacea

134. Septic thrombus must contain :

- (a) Virus (b) Bacteria (c) Parasite (d) Fungi

135. Pyknosis is one of the following process of chromatin material :

- (a) Fragmentation (b) Dissolution (c) Condensation (d) Lysis

136. One of the following cells is considered as hallmark of granulomatous inflammation : BEN

- (a) Lymphocytic cells (b) Epithelial cells  
(c) Epithelioid cells (d) Neutrophilic cells

137. Type-I hypersensitivity is mediated by one of the following antibodies :

- (a) IgA (b) IgG (c) IgM (d) IgE

138. Apoptosis is single cell death without any one of the following reactions :

- (a) Inflammatory (b) Immune/Infectious agent  
(c) Circulatory (d) Oncogenic

139. Eosinophilia occurs in one of the following infections :

- (a) Virus (b) Bacteria (c) Fungus (d) Parasite

140. Rhinosporidiosis is characterized by one of the following lesions :

- (a) Nasal granuloma (b) Nasal polyps  
(c) Nasal ulcers (d) Nasal abscess

141. Aflatoxin can cause one of the following conditions in animals

- (a) Immunopotential (b) Immunostimulation  
(c) Immunosuppression (d) Immunotolerance

142. Cysticercosis is also known as :

- (a) Nodular worm (b) Bladder worm (c) Guinea worm (d) Heartworm

143. Copper deficiency may lead to one of the following diseases in animals :

- (a) Pica (b) Ataxia (c) Ketosis (d) Grass staggers

144. Blind staggers occur due to poisoning of one of the following in animals :

- (a) Copper (b) Oxalates (c) Cadmium (d) Selenium

145. Osteopetrosis is caused by one of the following viruses :

- (a) Reovirus (b) Adenovirus (c) Retrovirus (d) Pneumovirus

146. Pasty vent in grower poultry is caused by :

- (a) Rhinovirus (b) Togavirus (c) Reovirus (d) Orbivirus

147. Decrease in number of all components of leucocytes is known as : BEN ML

- (a) Leucopenia (b) Neutropenia (c) Lymphopenia (d) Pan-leucopenia

148. Postmortem examination of a sheep is done by placing carcass on one of the following recumbency :

- (a) Right (b) Left (c) Dorsal (d) Ventral

149. Serum samples from aborted cattle should be collected after one of the following duration of abortion for Brucellosis testing :

- (a) One week (b) Two weeks (c) Three weeks (d) Three months

150. Myoglobin in urine is detected in :

- (a) Strangles (b) Glanders  
(c) Azoturia (d) Equine infectious anaemia

पशुचिकित्साधिकारी (ग्रेड-2) परीक्षा-2023

द्वितीय प्रश्नपत्र- पशु चिकित्सा विज्ञान

**Provisional Answer Key Series A**

1	C	51	A	101	B
2	B	52	B	102	A
3	A	53	C	103	B
4	C	54	D	104	A
5	A	55	B	105	B
6	B	56	A	106	B
7	A	57	B	107	C
8	B	58	B	108	C
9	A	59	B	109	B
10	A	60	B	110	A
11	D	61	B	111	B
12	D	62	B	112	B
13	B	63	C	113	A
14	C	64	C	114	B
15	C	65	B	115	C
16	D	66	A	116	D
17	A	67	A	117	C
18	D	68	C	118	D
19	B	69	B	119	B
20	C	70	A	120	C
21	B	71	C	121	D
22	B	72	A	122	C
23	D	73	A	123	C
24	C	74	B	124	D
25	C	75	B	125	D
26	D	76	B	126	A
27	B	77	A	127	D
28	C	78	A	128	B
29	C	79	C	129	D
30	A	80	A	130	A
31	B	81	B	131	D
32	B	82	B	132	A
33	C	83	B	133	D
34	A	84	B	134	C
35	A	85	A	135	B
36	D	86	C	136	C
37	C	87	C	137	C
38	C	88	C	138	B
39	A	89	A	139	B
40	B	90	B	140	B
41	B	91	C	141	C
42	D	92	D	142	C
43	B	93	B	143	A
44	D	94	B	144	B
45	C	95	B	145	A
46	D	96	B	146	A
47	A	97	A	147	D
48	C	98	A	148	B
49	C	99	B	149	C
50	A	100	A	150	A

पशुचिकित्साधिकारी (ग्रेड-2) परीक्षा-2023

द्वितीय प्रश्नपत्र- पशु चिकित्सा विज्ञान

**Provisional Answer Key Series B**

1	A	51	A	101	A
2	B	52	B	102	D
3	B	53	B	103	A
4	C	54	B	104	D
5	A	55	B	105	C
6	A	56	A	106	B
7	D	57	C	107	C
8	C	58	C	108	C
9	C	59	C	109	B
10	A	60	A	110	B
11	B	61	B	111	B
12	B	62	C	112	C
13	D	63	D	113	C
14	B	64	B	114	A
15	D	65	B	115	B
16	C	66	B	116	A
17	D	67	B	117	A
18	A	68	A	118	D
19	C	69	A	119	B
20	C	70	B	120	C
21	A	71	A	121	A
22	A	72	B	122	C
23	B	73	A	123	B
24	C	74	B	124	A
25	D	75	A	125	C
26	B	76	B	126	A
27	A	77	B	127	B
28	B	78	C	128	A
29	B	79	C	129	B
30	B	80	B	130	A
31	B	81	A	131	A
32	B	82	B	132	D
33	B	83	B	133	D
34	C	84	A	134	B
35	C	85	B	135	C
36	B	86	C	136	C
37	A	87	D	137	D
38	A	88	C	138	A
39	C	89	D	139	D
40	B	90	B	140	B
41	A	91	C	141	C
42	C	92	D	142	B
43	A	93	C	143	B
44	A	94	C	144	D
45	B	95	D	145	C
46	B	96	D	146	C
47	B	97	A	147	D
48	A	98	D	148	B
49	A	99	B	149	C
50	C	100	D	150	C

पशुचिकित्साधिकारी (ग्रेड-2) परीक्षा-2023

द्वितीय प्रश्नपत्र- पशु चिकित्सा विज्ञान

**Provisional Answer Key Series C**

1	B	51	C	101	B
2	B	52	B	102	A
3	B	53	A	103	A
4	B	54	B	104	D
5	B	55	B	105	D
6	C	56	A	106	B
7	C	57	B	107	C
8	B	58	C	108	C
9	A	59	D	109	D
10	A	60	C	110	A
11	C	61	D	111	D
12	B	62	B	112	B
13	A	63	C	113	C
14	C	64	D	114	B
15	A	65	C	115	B
16	A	66	C	116	D
17	B	67	D	117	C
18	B	68	D	118	C
19	B	69	A	119	D
20	A	70	D	120	B
21	A	71	B	121	C
22	C	72	D	122	C
23	A	73	A	123	A
24	B	74	D	124	B
25	B	75	A	125	B
26	B	76	D	126	C
27	B	77	C	127	A
28	A	78	B	128	A
29	C	79	C	129	D
30	C	80	C	130	C
31	C	81	B	131	C
32	A	82	B	132	A
33	B	83	B	133	B
34	C	84	C	134	B
35	D	85	C	135	D
36	B	86	A	136	B
37	B	87	B	137	D
38	B	88	A	138	C
39	B	89	A	139	D
40	A	90	D	140	A
41	A	91	B	141	C
42	B	92	C	142	C
43	A	93	A	143	A
44	B	94	C	144	A
45	A	95	B	145	B
46	B	96	A	146	C
47	A	97	C	147	D
48	B	98	A	148	B
49	B	99	B	149	A
50	C	100	A	150	B

पशुचिकित्साधिकारी (ग्रेड-2) परीक्षा-2023

द्वितीय प्रश्नपत्र- पशु चिकित्सा विज्ञान

**Provisional Answer Key Series D**

1	B	51	C	101	A
2	A	52	B	102	A
3	C	53	C	103	D
4	C	54	C	104	C
5	C	55	B	105	C
6	A	56	B	106	A
7	B	57	B	107	B
8	C	58	C	108	B
9	D	59	C	109	D
10	B	60	A	110	B
11	B	61	B	111	D
12	B	62	A	112	C
13	B	63	A	113	D
14	A	64	D	114	A
15	A	65	B	115	C
16	B	66	C	116	C
17	A	67	A	117	A
18	B	68	C	118	A
19	A	69	B	119	B
20	B	70	A	120	C
21	A	71	C	121	D
22	B	72	A	122	B
23	B	73	B	123	A
24	C	74	A	124	B
25	C	75	B	125	B
26	B	76	A	126	B
27	A	77	A	127	B
28	B	78	D	128	B
29	B	79	D	129	B
30	A	80	B	130	C
31	B	81	C	131	C
32	C	82	C	132	B
33	D	83	D	133	A
34	C	84	A	134	A
35	D	85	D	135	C
36	B	86	B	136	B
37	C	87	C	137	A
38	D	88	B	138	C
39	C	89	B	139	A
40	C	90	D	140	A
41	D	91	C	141	B
42	D	92	C	142	B
43	A	93	D	143	B
44	D	94	B	144	A
45	B	95	C	145	A
46	D	96	C	146	C
47	A	97	A	147	A
48	D	98	B	148	B
49	A	99	B	149	B
50	D	100	C	150	B