



JAMMU AND KASHMIR PUBLIC SERVICE COMMISSION

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Subject: Written Examination for the post of Veterinary Assistant Surgeon, 2024 - Provisional Answer Key thereof.

Notification No. PSC/Exam/S/2025/01

Dated: 12.01.2025

In pursuance of Rule 10 (c) of the Jammu & Kashmir Public Service Commission (Conduct of Examination) Rules, 2022, as amended upto date, the Provisional Answer Key of Question Paper pertaining to the Written Examination for the post of **Veterinary Assistant Surgeon, 2024 held on 12.01.2025**, is hereby notified for seeking the objections from candidates.

Provisional Answer Key

Test Booklet Question No. (Series A)	
Q1.	C
Q2.	B
Q3.	D
Q4.	C
Q5.	C
Q6.	B
Q7.	A
Q8.	B
Q9.	B
Q10.	C
Q11.	D
Q12.	C
Q13.	A
Q14.	C
Q15.	D

Test Booklet Question No. (Series A)	
Q16.	A
Q17.	D
Q18.	D
Q19.	C
Q20.	C
Q21.	B
Q22.	C
Q23.	B
Q24.	C
Q25.	D
Q26.	B
Q27.	C
Q28.	C
Q29.	D
Q30.	C

Test Booklet Question No. (Series A)	
Q31.	B
Q32.	C
Q33.	B
Q34.	B
Q35.	C
Q36.	C
Q37.	B
Q38.	C
Q39.	C
Q40.	D
Q41.	C
Q42.	C
Q43.	B
Q44.	B
Q45.	B

Test Booklet Question No. (Series A)	
Q46.	C
Q47.	B
Q48.	B
Q49.	D
Q50.	D
Q51.	B
Q52.	A
Q53.	C
Q54.	D
Q55.	C
Q56.	C
Q57.	A
Q58.	B
Q59.	B
Q60.	D
Q61.	D
Q62.	B
Q63.	A
Q64.	B
Q65.	B
Q66.	C
Q67.	C
Q68.	A
Q69.	C
Q70.	D

Test Booklet Question No. (Series A)	
Q71.	B
Q72.	C
Q73.	C
Q74.	D
Q75.	B
Q76.	D
Q77.	D
Q78.	B
Q79.	B
Q80.	B
Q81.	C
Q82.	D
Q83.	C
Q84.	D
Q85.	B
Q86.	B
Q87.	D
Q88.	C
Q89.	B
Q90.	D
Q91.	C
Q92.	C
Q93.	B
Q94.	C
Q95.	B

Test Booklet Question No. (Series A)	
Q96.	C
Q97.	B
Q98.	C
Q99.	B
Q100.	D
Q101.	C
Q102.	B
Q103.	C
Q104.	C
Q105.	D
Q106.	B
Q107.	D
Q108.	C
Q109.	C
Q110.	D
Q111.	C
Q112.	B
Q113.	B
Q114.	C
Q115.	B
Q116.	C
Q117.	C
Q118.	B
Q119.	B
Q120.	D

The candidates are advised to refer to **Question Booklet (Series A)** to match the corresponding question(s) in their respective Question Booklet Series and if any candidate feels that the key to any of the question(s) is/are wrong, he/she may represent on prescribed format/proforma annexed as **Annexure-A** along with the documentary proof/evidence (**hard copies only**) and fee of Rs.500/- per question in the form of Demand Draft drawn in favour of **COE, J&K PSC** (refundable in case of genuine/correct representation) to the Controller of Examinations, Jammu & Kashmir Public Service Commission, from 14.01.2025 to 16.01.2025. **The candidates are further advised to clearly mention the question(s) objected to with reference to its serial number as it appears in the Question Booklet of Series A of the provisional answer key.**

Further, any objection/application not accompanied by the requisite Demand Draft of Rs.500/- as prescribed, shall not be considered/entertained under any circumstances. Candidates are, in their own interest, advised to adhere to these instructions and not submit any objection unaccompanied by the Demand Draft as required under extant rules.

The Commission shall not entertain any such representation(s) after the expiry of the stipulated period i.e. **after 16.01.2025 (Thursday), 05.00 pm.**

The provisional answer key(s) are available on the website of the Commission <http://www.jkpsc.nic.in>.


(Dr. Majad Jhangir) JKAS

Dy. Controller of Examinations
J&K Public Service Commission



Dated: 12.01.2025

No. PSC/Ex-Secy/2025/02

Copy to the: -

1. Director, Information and Public Relations, J&K for publication of the notice in all leading newspapers published from Jammu/Srinagar.
2. P.S. to Hon'ble Chairman, J&K Public Service Commission for information of the Hon'ble Chairman.
3. P.S. to Hon'ble Member, Shri _____ for information of the Hon'ble Member.
4. P. A. to Secretary, J&K Public Service Commission for information of the Secretary.
5. P. A. to Controller of Examinations, J&K Public Service Commission for information of the COE.
6. Main file/Stock file/Notice Board.

Annexure-A

Representation regarding objection(s) to any Question/Answer pertaining to the Written Test conducted for the post of Veterinary Assistant Surgeon, 2024 in Animal Husbandry Department on 12.01.2025

(NOTE: USE SEPARATE FORMS FOR SEPARATE QUESTIONS)

Name of the Applicant: _____

Roll No. : _____

Correspondence Address : _____

Contact/Mobile No. : _____

Date of Application: _____ .01.2025

Demand Draft Details: No. _____ Date _____ Amount _____

Candidates Account No.(16 digit) & IFSC Code : _____

Question No. in Series A	Details of the Objection	Resource Material (copy to be enclosed)	Details of the Website (if any)
<u>Correct Answer/Option as per candidate :</u>			



Signature of the Candidate

Note : Application for each question/answer shall be made on separate page in the given format, otherwise the first question entered in the format shall only be considered.

DO NOT OPEN THIS TEST BOOKLET UNTIL YOU ARE TOLD TO DO SO

Booklet Serial No. **250413**

Test Booklet Series

**TEST BOOKLET
VETERINARY ASSISTANT SURGEON**

A

Written Test - 2024

(51)

Time Allowed: Two Hours

Maximum Marks: 120

INSTRUCTIONS

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.
2. Please note that it is the candidate's responsibility to encode and fill in the Roll Number and Test Booklet Series Code A, B, C or D carefully and without any omission or discrepancy at the appropriate places in the OMR Answer /Response Sheet. Any omission/discrepancy will render the Response Sheet liable for rejection.
3. You have to enter your Roll Number on the Test Booklet in the Box provided alongside.
DO NOT write anything else on the Test Booklet.
4. This Test booklet contains **120** items (questions). Each item comprises of four responses (answers). You will select the response which you want to mark on the Answer Sheet/Response Sheet. In case you feel that there is more than one correct response, mark the response which you consider the best. In any case, choose **ONLY ONE** response for each item.
5. You have to mark all your responses **ONLY** on the separate Answer /Response Sheet provided. See directions in the Response Sheet.
6. *All* items carry equal marks.
7. Before you proceed to mark in the Answer /Response Sheet, the response to various items in the Test Booklet, you have to fill in some particulars in the Answer /Response Sheet as per instructions sent to you with your Admission Certificate.
8. After you have completed filling in all your responses on the Response Sheet and the examination has concluded, you should hand over to the Invigilator **only the Answer /Response Sheet**. You are permitted to take away with you the Test Booklet and **Candidate's Copy of the Response Sheet**.
9. Sheets for rough work are appended in the Test Booklet at the end.
10. While writing Centre, Subject and Roll No. on the top of the Answer Sheet/Response Sheet in appropriate boxes use "**ONLY BALL POINT PEN**".
11. **Penalty for wrong answers:**
THERE WILL BE PENALTY FOR WRONG ANSWERS MARKED BY THE CANDIDATE IN THE WRITTEN TEST (OBJECTIVE TYPE QUESTIONS PAPERS).
 - (i) There are four alternatives for the answer to every question. For each question for which a wrong answer has been given by the candidate, **(0.25)** of the marks assigned to that question will be deducted as penalty.
 - (ii) If a candidate gives more than one answer, it will be treated as a **wrong answer** even if one of the given answers happens to be correct and there will be same penalty as above for that question.
 - (iii) If a question is left blank, i.e., no answer is given by the candidate, there will be **no penalty** for that question.

DO NOT OPEN THIS TEST BOOKLET UNTIL YOU ARE TOLD TO DO SO

(51) (A)/2024

[P.T.O.]

1. Which among the following is identified as a highly prolific sheep breed of India?
 - A) Bhakarwal
 - B) Magra
 - C) Kendrapada
 - D) Muzaffarnagri

2. The final solid contents in Khoa ranges from _____
 - A) 30-40 %
 - B) 65-70%
 - C) 70-85%
 - D) 45-55%

3. The sweet that is prepared from Danedar Khoa is _____
 - A) Kalajamun
 - B) Peda
 - C) Burfi
 - D) Kalakand

4. To meet the legal requirements, the minimum percentage of milk fat in Makhan should be
 - A) a minimum of 25%
 - B) not less than 55%
 - C) not less than 76%
 - D) 99 - 99.5 %

5. Which among the following contributes significantly towards methane production?
 - A) Burning of crop residues
 - B) Rice cultivation
 - C) Enteric fermentation
 - D) Manure management

6. The product "Panchgavya" is comprised of which of the following ingredients:
 - i) Water
 - ii) Cow dung
 - iii) Cow urine
 - iv) Cow's milk
 - v) Curd
 - vi) Ghee

Which of the given combination is correct?

 - A) i, ii, iii, iv and v
 - B) ii, iii, iv, v and vi
 - C) ii, iii, iv, vi, and i
 - D) iii, iv, vi, v, and i

7. Which of the following is **NOT TRUE** about Vermicomposting?
- A) Vermicomposting takes at least six months to get desirable effect
 - B) Reduction in volume is significant as compared to natural compost
 - C) Vermicomposting helps in increasing the N, P, K content to 3-4 times as compared to natural compost
 - D) Addition of algae (*Azolla*) increases the manurial output of vermin compost
8. Which among the following constitutes the major markets for Indian dairy products?
- A) European countries
 - B) Asian countries
 - C) USA
 - D) All the above
9. The seeds of *Abrus precatorius* is rich in the toxin
- A) Gossypol
 - B) Lectin
 - C) Hyosine
 - D) Hypericin
10. In which of the following cases of poisoning the blood is usually fluid and of bright- red color?
- A) H_2S
 - B) Nitrite
 - C) CO
 - D) None of the above
11. Veterinary preparations of iodophors available as aerosol sprays, ointment, solution and surgical scrub provide from _____% of titratable iodine.
- A) 70- 80%
 - B) 20-30%
 - C) 2-5%
 - D) 0.5-1%
12. What is **NOT TRUE** about formaldehyde?
- A) It has powerful germicidal action
 - B) It is used in the production of biologics
 - C) It destroys *Bacillus anthracis* spores more rapidly than Glutaraldehyde
 - D) It has low systemic toxicity although locally it is quite corrosive
13. Which of the following is an antinutritional factor that affect the utilization of vitamins?
- A) Lipoxygenase
 - B) Lathrogens
 - C) Erucic acid
 - D) Neriosides

14. The limiting amino acid lysine in lactating cow's diet is supplemented with
- A) Caster cake
 - B) Mango seed kernel
 - C) Soyabean meal
 - D) Palm kernel meal
15. The use of tapioca leaf meal in poultry and swine is limited by the presence of :
- A) Isoflavones
 - B) Glucosinolates
 - C) Saponins
 - D) Hydrocyanic acid /Prussic acid
16. Which among the following falls in the category of non-conventional protein supplement?
- A) Karanj cake
 - B) Groundnut cake
 - C) Mustard cake
 - D) Soyabean meal
17. The process by which the dried and pre-chopped or ground hay is pressed by using hydraulic press in the shape of cubes of desired size is
- A) Ensiling
 - B) Baling
 - C) Pelleting
 - D) Cubing
18. Which of the following is goitrogenic?
- A) Thiocyanate
 - B) Glucosinates
 - C) Cyanogenic glycosides
 - D) All the above
19. Which among the following is an unconventional byproduct with high energy value but low in nitrogen?
- A) Leguminous pulse straw
 - B) Fish meal
 - C) Mango seed kernel
 - D) Coffee waste
20. Which among the following ensures that the drugs and cosmetics sold in India are safe, effective and conform to state quality standards?
- A) Federal Food Drug and Cosmetic Act, 1938
 - B) Federal Drug, and Cosmetic Act, 1938
 - C) Drugs and Cosmetics Act, 1940
 - D) Drug (Control) Act, 1950

21. Which among the safety information given in the drug product label can be viewed as most serious and severe?
- A) Indications
 - B) Contraindications
 - C) Warnings
 - D) Precautions
22. Which among the following is the most widely used and accepted injectable agent for euthanasia?
- A) Isoflurane
 - B) Tricaine methane sulfonate
 - C) Pentobarbital
 - D) Potassium chloride
23. Which of the following is an acute, highly fatal form of pasteurellosis that affects mainly water buffalo, cattle, and bison characterized by subcutaneous swelling in the pharyngeal region that extends to the ventral neck and brisket?
- A) Anthrax
 - B) Hemorrhagic septicemia
 - C) Black quarter
 - D) Brucellosis
24. Lumpy jaw of cattle is caused by
- A) *Fusobacterium necrophorum*
 - B) *Actinobacillus lignieresii*
 - C) *Actinomyces bovis*
 - D) *Clostridium chauvoei*
25. The test recommended for diagnosing a case of glanders in horses is
- A) CMT
 - B) Stormont test
 - C) MAT
 - D) Mallein test

26. Which of the following disease is characterized by meningo-encephalitis, abortion or septicemia?
- A) Black quarter
 - B) Listeriosis
 - C) Brucellosis
 - D) Pasteurellosis
27. Bang's disease in cattle is caused by
- A) *Corynebacterium renale*
 - B) *Fusobacterium necrophorum*
 - C) *Brucella abortus*
 - D) *Leptospira interrogans*
28. Hydropericardium syndrome in broiler breeds is caused by
- A) Coronavirus
 - B) Avibirnavirus
 - C) Avian Adenovirus 4
 - D) Gallid Herpesvirus 2
29. A disease in poultry caused by Avian type C Retrovirus group
- A) Ranikhet disease
 - B) Avian Infectious bursitis
 - C) Avian influenza
 - D) Avian leucosis complex
30. Contagious bovine pleuropneumonia is caused by
- A) *Mycoplasma hyopneumoniae*
 - B) *Mycobacterium bovis*
 - C) *Mycoplasma mycoides subspecies mycoides type SC*
 - D) *Mycoplasma gallisepticum*

31. Which of the following is not **TRUE** about malignant hyperthermia?
- A) It is triggered by inhalant anaesthetics like Sevoflurane and Isoflurane
 - B) It arises due to release of histamine by the drug
 - C) It can precipitate hepatitis
 - D) It can be treated with dantrolene sodium
32. Which of the following country is the largest importer of hand-knotted carpet wool from our country?
- A) Iran
 - B) Japan
 - C) Germany
 - D) South Africa
33. Which of the following is **NOT** true about cardiac glycosides
- A) They act by inhibiting $\text{Na}^+\text{-K}^+$ ATPase
 - B) They increase the myocardial oxygen demand
 - C) They are having prominent inotropic effect in failing heart
 - D) They produce AV nodal conduction block in normal individuals
34. Post mortem findings of marked enlarged spleen and liver, with infarcts in the kidneys, swollen lymph nodes and oedematous lungs, punched out ulcers in the abomasum are a characteristic feature of _____ infection in cattle.
- A) *Haemonchus contortus*
 - B) *Theileria annulata*
 - C) *Babesia bigemina*
 - D) *Ostertagia ostertagia*
35. Which of the following drugs produces pupillary dilation without causing cycloplegia?
- A) Pilocarpine
 - B) Tropicamide
 - C) Phenylephrine
 - D) Scopolamine
36. Which of the following is a Gapeworm found in the trachea of fowl?
- A) *Stephanofilaria assamensis*
 - B) *Mammomonogamus laryngeus*
 - C) *Syngamus trachea*
 - D) *Cyathosoma bronchialis*

37. A strongylida with a well-developed buccal capsule which is devoid of leaf-crowns, but is armed on its ventral margin with teeth.
- A) Strongylus equinus
 - B) Ancylostoma caninum
 - C) Oesophagostomum dentatum
 - D) Cythostomum tetracanthus
38. Which among the following is a hermaphrodite, endoparasitic worm with an elongate flat body and without body cavity or alimentary canal?
- A) Thorny headed worms
 - B) Hair worms
 - C) Cestodes
 - D) Flukes
39. Which is the metacestode of *Taneaia multiceps* that develops in the brain of sheep and cause gid or staggers?
- A) Cysticercus
 - B) Hydatid cysts
 - C) Coenurus
 - D) Strobilocercus
40. Which species plays an important role in the transmission of leishmaniasis?
- A) Musca domestica
 - B) Stomoxys calcitrans
 - C) Haematobia irritans
 - D) Phebotomus
41. The progenitor of all domestic breeds of fowl is
- A) Nageshwari
 - B) Kalahasthi
 - C) Red jungle fowl
 - D) Champalli
42. The enzyme released from the acrosome of the spermatozoa that help to pass through the cumulus cells is
- A) Aspartate aminotransferases (AST)
 - B) Alanine aminotransferases (ALT)
 - C) Hyaluronidase
 - D) Trypsin
43. The best time of artificial insemination /mating in cattle that have undergone oestrus synchronization treatments is
- A) 16-24 h
 - B) 8-12 h
 - C) 24-72 h
 - D) 30-48 h

44. Which of the following is a game bird known for its pugnacity, high stamina and dogged fighting qualities?
- Kadaknath
 - Aseel
 - Bursa
 - Tellichery
45. Pimply gut is caused by
- Spirocerca lupi
 - Oesophagostomum radiatum
 - Cooperia punctata
 - Thelezia rhodesie
46. The infection maintained between man and lower vertebrate animals and are transmitted in either direction is known as
- Anthropozoonoses
 - Cyclozoonoses
 - Amphixenoses
 - Zooanthropozoonoses
47. The average gestation length of sheep is
- 6 months
 - 5 days less in 5 months
 - 5 months 5 days
 - 3 months 3 weeks and 3 days
48. Match the following as defined under the Wild Life (Protection) Act, 1972
- | | |
|---|-----------------------------|
| 1) A species of animal or plant which is not native to India and whose introduction or spread may threaten or adversely impact wild life or its habitat | i) Wild animal |
| 2) Any animal specified in [Schedule I or Schedule II] and found wild in nature | ii) Wild life |
| 3) A National Park, a sanctuary, a conservation reserve or a community reserve notified under sections 18, 35, 36A and 36C of the Act | iii) Invasive alien species |
| 4) Any animal, aquatic or land vegetation which forms part of any habitat | iv) Protected area |

Choose the correct Answer:

- 1-iii, 2-ii, 3-i, 4 iv
- 1-iii, 2-i, 3-iv, 4-ii
- 1-ii, 2- iii, 3-iv, 4-i
- 1-iv, 2- iii, 3- ii, 4- i,

49. Which among the following is the intermediate host of *Dirofilaria immitis* of dogs?
- A) Anopheles
 - B) Culex
 - C) Mansonia
 - D) All the above
50. *Trypanosoma evansi*, the cause of Surra is transmitted by
- A) Tabanus
 - B) Stomoxys
 - C) Haematobia exigua
 - D) All the above
51. Which of the following indigenous cattle breed is a draught breed?
- A) Ongole
 - B) Bargur
 - C) Tharparkar
 - D) Red Kandhari
52. The common parasite of cattle known as ox warbles is
- A) Hypoderma lineatum larvae
 - B) Callitroga hominivorax larvae
 - C) Chrysomyia larvae
 - D) None of the above
53. The type of placenta seen in ruminants is
- A) Diffuse
 - B) Zonary
 - C) Cotyledonary
 - D) None of the above
54. The chief cause of blowfly strike of sheep is the larvae of
- A) Lucilia
 - B) Calliphora
 - C) Phormia
 - D) All the above
55. Which of the following is an indigenous cattle breed of high altitude, temperate and Alpine region?
- A) Kankrej
 - B) Amritmahal
 - C) Siri
 - D) Gangatiri

56. East coast fever is caused by
- A) *Babesia bigemina*
 - B) *Plasmodium vivax*
 - C) *Theileria parva*
 - D) *Trypanosoma cruzi*
57. The name "licked beef" is applied to the lesions caused by the larvae of
- A) *Hypoderma lineatum*
 - B) *Callitroga hominivorax*
 - C) *Chrysomya*
 - D) *Ostertagia oystertagia*
58. Which is the trematode that resides in the blood vessels of their hosts?
- A) *Opisthorchis tenuicollis*
 - B) *Schistosoma nasalis*
 - C) *Fasciolopsis buski*
 - D) *Prosthogonimus pellucidus*
59. Which one of the following is known as the shaft louse of poultry?
- A) *Liperus canopis*
 - B) *Menopon gallinae*
 - C) *Menacanthus stramineus*
 - D) *Gonoides gigas*
60. Large sized dairy breeds of buffalo include
- i) Jaffrabadi
 - ii) Nili-Ravi
 - iii) Murrah
 - iv) Surti
- Choose the correct Answer:**
- A) i, ii, and iv only
 - B) i, iii, and iv only
 - C) ii, iii, and iv only
 - D) i, ii, and iii only

61. Healthy pink mucus membrane and cherry red blood is seen in poisoning with
- A) Copper
 - B) H₂S
 - C) Nitrates
 - D) Cyanides

62. Match the following toxicosis correctly

- | | |
|---------------|-----------------------------|
| 1) Arsenic | i) Bobtail disease |
| 2) Urea | ii) Laryngeal paralysis |
| 3) Molybdenum | iii) Bovine bunkers disease |
| 4) Selenium | iv) Rice gruel diarrhea |
| 5) Lead | v) Teat scour |

Choose the correct Answer:

- A) 1-ii, 2-iv, 3-v, 4-iii, 5-i
- B) 1-iv, 2-iii, 3-v, 4-i, 5-ii
- C) 1-v, 2- iii, 3-i, 4-ii, 5-iv
- D) 1-iii, 2- ii, 3- iv, 4- v, 5-i

63. Deficiency of which element in the sow predisposes baby pigs to toxicosis by injectable iron preparations?

- A) Selenium
- B) Zinc
- C) Magnesium
- D) Copper

64. Match the antidotal therapy for the following toxicosis

- | | |
|--------------------|--|
| 1) Copper | i) Ethanol |
| 2) Iron | ii) Dimercaprol |
| 3) Arsenic | iii) Sodium thiosulfate and sodium nitrite |
| 4) Cyanide | iv) Deferoxamine |
| 5) Ethylene Glycol | v) d- Penicillamine |

Choose the correct Answer:

- A) 1-iii, 2-i, 3-v, 4-ii, 5-iv
- B) 1-v, 2-iv, 3-ii, 4-iii, 5-i
- C) 1-ii, 2-v, 3-iii, 4-i, 5-iv
- D) 1-iv, 2-iii, 3-v, 4-i, 5-ii

65. A nonsteroidal estrogenic mycotoxin produced by several species of *Fusarium* fungi is

- A) Trichothecene
- B) Zearalenone
- C) Ochratoxin A
- D) Fumonisin

66. Massive haemorrhage is the general characteristic toxicosis by
- A) Pyriminil
 - B) Chloralose
 - C) Warfarin
 - D) Crimidine
67. The rodenticide that is directly irritant to the gut and produces severe gastroenteritis
- A) Red squill
 - B) Fluoroacetate
 - C) Zinc phosphide
 - D) ANTU
68. Insecticide synergists such as piperonylbutoxide are most commonly used in combination with?
- A) Pyrethroids
 - B) Rotenone
 - C) Nicotine
 - D) Carbamates
69. Which phase of the estrous cycle is referred to as the phase of corpus luteum?
- A) Esterus
 - B) Proestrous
 - C) Diestrous
 - D) Metestrous
70. The advantage of using glycerol in semen extender is
- A) It reduces that freezing point of the medium
 - B) It permits sufficient slow cooling over critical temperature
 - C) It modifies the crystal formation in the medium
 - D) All the above
71. Which of the following test is used for assessing the integrity and functional activity of sperm membrane?
- A) Resazurin dye reduction test
 - B) Hypo-osmotic sperm swelling test (HOSST)
 - C) Nuclear chromatin decondensation test
 - D) Sodium chloride resistance test
72. Which of the following is the causative agent of Bacillary white diarrhea?
- A) Salmonella typhimurium
 - B) Salmonella gallinarum
 - C) Salmonella pullorum
 - D) Salmonella enteritidis

73. Which among the following is an impermeant fluorescent probe used for evaluating sperm viability by assessing cell membrane integrity?
- A) Carboxyfluorescein diacetate
 - B) SYBR-14
 - C) Propidium iodide
 - D) Rhodamine 123
74. Which of the following pathogenic organisms cause damage to the male reproductive organs and hence loss of fertility?
- A) *Mycobacterium tuberculosis*
 - B) *Brucella abortus*
 - C) *Corynebacterium pyogenes bovis*
 - D) All the above
75. Which of the following pathogen passes to the developing embryo from the parent birds resulting in high levels of chick mortality and impairment in chicks after hatching?
- A) *Candida albicans*
 - B) Avian encephalomyelitis virus
 - C) *Clostridium perfringens*
 - D) *Camphylobacter jejuni*
76. Which among the following is an established recombinant viral vector used in the production of poultry viral vaccine?
- A) Turkey herpesvirus
 - B) Marek disease virus
 - C) Fowl pox virus
 - D) All the above
77. The ovarian cyst formation in animals may result from
- A) An altered LH release from the hypothalamus-pituitary gonadal axis
 - B) Insufficient magnitude of pre-ovulatory LH surge
 - C) Lack of LH receptors in the granulosa cells
 - D) All the above
78. Post-parturient hemoglobinuria (PPH) in high yielding cattle is associated with
- A) Leptospirosis
 - B) Phosphorus deficiency
 - C) Salt poisoning
 - D) None of the above

79. The Exotic disease surveillance in the country is carried out at
- A) Project Directorate on Disease Monitoring and Surveillance (PD_ADMAS)
 - B) High Security Animal Disease Laboratory (HSADL)
 - C) Project Directorate on FMD (PDFMD)
 - D) Central Disease Diagnostic Laboratory

80. The noninvasive technique that permits diagnosis of cardiovascular diseases in small animals
- i) Magnetic Resonance Imaging
 - ii) Echocardiography
 - iii) Scintigraphy
 - iv) Coronary Optical Coherence Tomography (OCT)

Choose the correct Answer:

- A) i, ii, and iv only
 - B) i, ii, and iii only
 - C) ii, iii, and iv only
 - D) i, iii, and iv only
81. The only medication that is approved by the Food and Drug Administration (FDA) for the treatment of horses diagnosed with gastric ulcers
- A) Sodium bicarbonate
 - B) Magnesium hydroxide
 - C) Omeprazole
 - D) Sucralfate

82. Which among the benzimidazole anthelmintic is safe in pregnancy and approved for use in both beef and lactating dairy cattle?
- A) Oxfendazole
 - B) Albendazole
 - C) Febantel
 - D) Fenbendazole

83. The major toxic effect of lincosamides in horses is their ability to cause
- A) Liver damage
 - B) Nephritis
 - C) Enterocolitis
 - D) Otitis

84. Which one of the following is known as production disease of cattle?
- A) Fat cow syndrome
 - B) Parturient paresis
 - C) Ketosis
 - D) All the above

85. Calcium magnesium borogluconate containing 25% calcium borogluconate and 5% magnesium hypophosphite is administered to dairy animal for the treatment of
- A) Milk fever
 - B) Grass tetany
 - C) Creepers
 - D) Fat cow syndrome
86. Postmortem discoloration of carcass is called
- A) Pallor mortis
 - B) Livor mortis
 - C) Algor mortis
 - D) Rigor mortis
87. Standing with all four legs in the classic "saw-horse" stance with the neck and tail held erect is typical of
- A) Low doses of organophosphates
 - B) Vitamin K deficiency
 - C) Downer's syndrome
 - D) Tetany
88. Pathologic lowering of the body temperature is seen in which of the following disorders
- A) Acute severe inflammatory process
 - B) Heat stroke
 - C) Post parturient paresis
 - D) Anhidrosis
89. The presence of fresh blood or clots in the feces is
- A) Malena
 - B) Hematochezia
 - C) Hematuria
 - D) Hemoglobinuria
90. The poisonous plants that cause neurological signs in animals
- A) Bracken fern (*Pteridium aquilinum*)
 - B) Nightshades (*Atropa species*)
 - C) Tobacco (*Nicotiana species*)
 - D) All the above

91. The word stupor indicates
- A) Animals are unconscious and will not respond even to the most painful stimuli.
 - B) Animals respond to normal stimuli but are duller than normal
 - C) Animals appear to be asleep and will respond only to vigorous and painful stimuli.
 - D) Animals exhibit abnormal reactions and responses to their environments, including to inanimate objects
92. Which of the following inhalants lacks sufficient potency to produce surgical anesthesia by itself and therefore is commonly used with another inhaled or intravenous anesthetic?
- A) Halothane
 - B) Sevoflurane
 - C) Nitrous oxide
 - D) Desflurane
93. Indicate the anesthetic, which is an inhibitor of NMDA glutamate receptors.
- A) Thiopental
 - B) Ketamine
 - C) Halothane
 - D) Sevoflurane
94. The causative agent of "Thin ewe syndrome" in sheep is _____
- A) *Pasteurella multocida*
 - B) *Mycobacterium para tuberculosis*
 - C) *Corynebacterium pseudo tuberculosis*
 - D) *Escherichia coli*
95. A highly sensitive imaging procedure in which radioisotopes are used to detect functional status of the body systems
- A) Magnetic Resonance Imaging
 - B) Positron Emission Tomography (PET)
 - C) Ultrasonography
 - D) All the above
96. The contrast radiographic technique used for evaluation of the urinary bladder for extramural, mural or intraluminal lesions is
- A) Peritoneography
 - B) Rhinography
 - C) Cystography
 - D) Sialography

97. Which of the following statement/s are true?

- i) Excess copper in blood causes hemolytic crisis and clogging of renal tubules with haemoglobin.
- ii) Acute toxicosis by carbamates responds well to atropine and 2- PAM.
- iii) The effects of lead on hematopoiesis are associated with inhibition of key enzymes in the pathway of heme synthesis
- iv) Simple stomached animals are less susceptible to anticoagulant rodenticides than ruminants

Which of the above are correct?

- A) All are true
- B) i and iii are true
- C) i, ii and iv are true
- D) ii, iii and iv are true

98. The market values of final goods and services, in the country plus income earned by the Indians from foreign countries minus the income earned by the foreigners in India is called as which of the following concepts?

- A) Gross Domestic Product
- B) Net national Product
- C) Gross National Product
- D) Net domestic Product

99. The recent and most commonly used method for cataract surgery in canines is

- A) Cryoextraction
- B) Phacoemulsification
- C) Extracapsular lens extraction
- D) Intracapsular lens extraction

100. The diagnostic test used to detect ulceration of the cornea is

- A) Nigrosin dye test
- B) Eosin dye test
- C) Phenol red thread test
- D) Fluorescein dye test

101. Consider the following statements about the Purple Revolution:

- 1. Launched by the Ministry of Science and Technology
- 2. To promote the cultivation of lavender
- 3. To promote the cultivation of Brinjal

Which of the above statements is/are correct?

- A) 1 only
- B) 2 only
- C) 1 and 2
- D) 1 and 3

102. Given the dose of marbofloxacin in calves is 2mg/kg, how much quantity (mL) of inj. marbofloxacin (strength 10%) is to be administered to a calf weighing 150 kg body weight?

- A) 1.5 mL
- B) 3 mL
- C) 5 mL
- D) 2 mL

103. Which of the following is an absorbable suture of natural origin?

- A) Polyamide
- B) Polypropylenes
- C) Chromic catgut
- D) Polydioxanone

104. If the container of a medicine for internal use is labelled with the words _____ "Caution: it is dangerous to take this preparation except under medical supervision" indicates that the medicine contains a substance specified in

- A) Schedule H
- B) Schedule H1
- C) Schedule G
- D) Schedule X

105. Arrange the following Himalayan peaks from West to East:

1. Namcha Barwa
2. Nanda Devi
3. Kanchenjunga
4. Nanga Parbat

Choose the correct Answer:

- A) 1-2-3-4
- B) 1-2-4-3
- C) 2-4-3-1
- D) 4-2-3-1

106. Match the following research institutes with their locations

- | | |
|--|----------------------------------|
| 1) The ICAR- National Research Centre on Yak | i) Shimla in Himachal Pradesh |
| 2) The ICAR- Central Institute for Research on Buffalo | ii) Makhdoom, Uttar Pradesh |
| 3) The ICAR- National Research Centre on Pigs | iii) Dirang in Arunachal Pradesh |
| 4) The ICAR- Central Potato Research Institute | iv) Hissar in Haryana |
| 5) The ICAR- Central Institute for Research on Goats | v) Guwahati in Assam |

Choose the correct Answer:

- A) 1-iii, 2-i, 3-v, 4-ii, 5-iv
- B) 1-iii, 2-iv, 3-v, 4-i, 5-ii
- C) 1-ii, 2-v, 3-iii, 4-i, 5-iv
- D) 1-iv, 2- iii, 3- v, 4- i, 5-ii

107. Which of the following statement/(s) are true about the 'Methanol Economy' programme of NITI Aayog, Government of India?

- i) Use of methanol will help in reducing India's oil import bill and greenhouse gas (GHG) emissions
- ii) Methanol is higher in energy content than petrol and diesel
- iii) Blending of 15% methanol in gasoline can result in at least 15% reduction in the import of gasoline/crude oil
- iv) It will create close to 5 million jobs through methanol production/application and distribution services

Choose the correct Answer:

- A) All are true
- B) i, ii, and iv are true
- C) ii, iii and iv are true
- D) i, iii, and iv are true

108. The species of livestock whose population is showing declining trends over the last four livestock census is

- A) Cattle
- B) Goat
- C) Camel
- D) Sheep

109. From which of the following states is Aravali Chicken registered as a new breed of indigenous livestock species by ICAR- National Bureau of Animal Genetic Resources?

- A) Maharashtra
- B) Uttar Pradesh
- C) Gujarat
- D) Andhra Pradesh

110. Who among the following presided over the Buddhist Council held during the reign of Kanishka at Kashmir?

- A) Parsva
- B) Nagarjuna
- C) Sudraka
- D) Vasumitra

111. Who is the author of the book "Ten Studies in Kashmir: History and Politics"?

- A) Jnan Chandra Ghosh
- B) Rajeshwar Acharya
- C) Kashi Nath Pandit
- D) Gita Mehta

112. Consider the following statements

- i) A Bill amending the constitution requires a prior recommendation of the President of India.
- ii) When a constitutional amendment Bill is presented to the President, it is obligatory for the President of India to give his/her view
- iii) A constitution Amendment Bill must be passed by both the Lok Sabha and the Rajya Sabha by a special majority and there is no provision of a joint sitting

Which of the above is correct?

- A) ii and i only
- B) ii and iii only
- C) i and iii only
- D) i, ii and iii

113. Which of the following entrepreneurship programme for women was launched in J&K?

- A) BHAROSA - inspiring her growth
- B) HAUSLA - inspiring her growth
- C) ASHA - inspiring her growth
- D) DISHA- inspiring her growth

114. Which year was recognized by the Food and Agricultural Organization (FAO) and United Nations (UN) as the International Year of Millets?

- A) 2024
- B) 2020
- C) 2023
- D) 2018

115. How many species of animals will be counted in the recently launched 21st Livestock census?

- A) 20
- B) 16
- C) 15
- D) 24

116. Which among the following countries is the largest producer of milk in the world as of 2024?

- A) China
- B) Australia
- C) India
- D) United States

117. Match the correctly the dates on which the following were established?

- | | |
|--|-------------------------------------|
| 1) World Health Organization | i) 16 th November, 1945 |
| 2) Food and Agriculture Organization | ii) 7 th April, 1948 |
| 3) United Nations International
Children's Emergency Fund | iii) 16 th October, 1945 |
| 4) The United Nations Educational,
Scientific and Cultural Organization | iv) 16 th December, 1946 |

Choose the correct Answer:

- A) 1-iii, 2-i, 3-iv, 4-ii
- B) 1-iii, 2-iv, 3-i, 4-ii
- C) 1-ii, 2-iii, 3-iv, 4-i
- D) 1-iv, 2- iii, 3-ii, 4-i

118. The Jammu & Kashmir Tourism Policy, 2020 will remain in force till:

- A) 2025 (for a period of five years)
- B) 2030 (for a period of ten years)
- C) 2035 (for a period of fifteen years)
- D) 2040 (for a period of twenty years)

119. The headquarters of World Organization of Animal Health is located at :

- A) Atlanta, Georgia
- B) Paris, France
- C) Geneva, Switzerland
- D) Rome, Italy

120. What is the total contribution (in percent) of livestock to the total Gross Value Added (at constant prices) in agriculture and allied sectors in the year 2022-2023?

- A) 24.32 %
- B) 28.80 %
- C) 29.17 %
- D) 30.38 %

ROUGH WORK