



AVSE / 2023
Animal Husbandry and
Veterinary Science

Series :

A

4043637

Question Booklet No.
प्रश्न पुस्तिका क्रम संख्या

अनुक्रमांक

Roll No.

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परीक्षार्थी अपना अनुक्रमांक दिए गए खानों में लिखें
Candidate should write his/her
Roll No. in the given boxes

मुद्रित पृष्ठों की संख्या/No. of Printed Pages : 32
समय/Time : 3 घण्टे/Hours

कुल प्रश्नों की संख्या/Total No. of Questions : 150
पूर्णांक/Total Marks : 450

परीक्षार्थियों के लिए निर्देश

1. परीक्षा प्रारम्भ होने के तुरन्त बाद, आप इस प्रश्न-पुस्तिका की पड़ताल अवश्य कर लें, कि इसमें कोई बिना छपा, फटा या छूटा हुआ पृष्ठ अथवा प्रश्नांश, आदि न हो। यदि ऐसा है, तो वीक्षक से तत्काल संपर्क कर प्रश्न-पुस्तिका बदल लेवें।
2. यह प्रश्न-पुस्तिका सम्मिलित रूप से दो खण्डों में विभाजित है, खण्ड - 'अ' तथा खण्ड - 'ब'।
3. खण्ड - 'अ' सामान्य अध्ययन से संबंधित है, जिसमें कुल 50 प्रश्न हैं। ये प्रश्न हिन्दी तथा अंग्रेज़ी भाषा में हैं। सभी प्रश्न अनिवार्य हैं।
4. खण्ड - 'ब' संबंधित पशु पालन एवं पशु चिकित्सा विज्ञान के विषय से है, जिसमें कुल 100 प्रश्न हैं। सभी प्रश्न अंग्रेज़ी भाषा में हैं। सभी प्रश्न अनिवार्य हैं।
5. सभी प्रश्नों के अंक समान हैं। प्रत्येक सही उत्तर के लिए 03 अंक प्रदान किए जाएंगे। ऋणात्मक मूल्यांकन का प्रावधान है। प्रत्येक गलत उत्तर के लिए 01 अंक काटा जाएगा।
6. प्रदत्त उत्तर-पत्र (ओ०एम०आर० शीट) पर दिए गए निर्देशों को ध्यानपूर्वक पढ़ें तथा अपने उत्तर तदनुसार अंकित करें।
7. कृपया उत्तर-पत्र (ओ०एम०आर० शीट) पर निर्धारित स्थानों पर आवश्यक प्रविष्टियाँ करें, अन्यत्र स्थानों पर नहीं।
8. परीक्षार्थी सभी रफ़ कार्य प्रश्न-पुस्तिका के अंतिम पृष्ठों पर निर्धारित स्थान पर ही करें, अन्यत्र कहीं नहीं तथा उत्तर-पत्र (ओ०एम०आर० शीट) पर भी नहीं।
9. यदि खण्ड - 'अ' के किसी प्रश्न में किसी प्रकार की कोई मुद्रण या तथ्यात्मक प्रकार की त्रुटि हो, तो प्रश्न के हिन्दी तथा अंग्रेज़ी रूपांतरों में से हिन्दी रूपांतर को मानक माना जाएगा।

INSTRUCTIONS TO THE CANDIDATES

1. Immediately after the commencement of the examination, you should check that this Question Booklet **does not** have any unprinted or torn or missing pages or items etc. If so, immediately contact the Invigilator and get it replaced with another Question Booklet.
2. This combined Question Booklet is divided in two Sections, Section—'A' and Section—'B'.
3. Section—'A' contains 50 questions of General Studies. All questions are in Hindi and English languages. All questions are compulsory.
4. Section—'B' contains 100 questions of concerned **Animal Husbandry and Veterinary Science** subject. All questions are in English languages. All questions are compulsory.
5. All questions carry equal marks. 03 marks will be given for each **correct** answer. There is a provision of **Negative Marking**. For each wrong answer, 01 mark will be deducted.
6. Read carefully the instructions given on the Answer Sheet (OMR) supplied and indicate your answers accordingly.
7. Kindly make necessary entries on the Answer Sheet (OMR) at the places indicated and nowhere else.
8. Examinee should do all rough work on the space meant for rough work on pages given at the end of the Question Booklet and nowhere else, not even on the Answer Sheet (OMR).
9. If there is any sort of mistake either of printing or of factual nature in any question of Section—'A', then out of the Hindi and English versions of the question, the Hindi version will be treated as standard.

SEAL



खण्ड - अ
सामान्य अध्ययन

1. तृतीय शताब्दी ई० में बोधिवंशी राजाओं का अधिकार किस क्षेत्र पर था?
[A] मालवा
[B] त्रिपुरी
[C] निमाड़
[D] शिवपुरी
2. बुन्देला विद्रोह के नायक, हीरापुर के राजा हिरदे शाह को किस गवर्नर जनरल के कार्यकाल में गिरफ्तार किया गया था?
[A] लॉर्ड हेस्टिंग्स
[B] लॉर्ड एलेनबोरो
[C] लॉर्ड डलहौजी
[D] इनमें से कोई नहीं
3. महाकौशल राजनैतिक परिषद का गठन _____ के नेतृत्व में हुआ।
[A] नाथूराम मोदी
[B] ठाकुर लक्ष्मण सिंह
[C] सेठ गोविन्द दास
[D] इनमें से कोई नहीं
4. जंगल सत्याग्रह सर्वप्रथम मध्य प्रदेश के किस जिले में हुआ था?
[A] रीवा
[B] खण्डवा
[C] सिवनी
[D] उपरोक्त में से कोई नहीं
5. निम्नलिखित में से किस संस्कृत काव्य साहित्य की रचना गोण्ड राजा संग्राम शाह ने किया था?
[A] संग्रामसाहीय विवेकदीपिका
[B] रसरत्नमाला
[C] हृदय कौतुक
[D] हृदय-प्रकाश
6. कालू जी महाराज का मेला, मध्य प्रदेश के किस जिले में आयोजित होता है?
[A] खरगौन
[B] बैतूल
[C] बालाघाट
[D] दमोह
7. निम्नलिखित शासकों में से किसके शासन काल में सास-बहू मन्दिर का निर्माण कार्य पूर्ण हुआ?
[A] महीपाल
[B] सूर्यपाल
[C] पद्मपाल
[D] देवपाल
8. अगरिया जनजाति अपने _____ के लिये जानी जाती है।
[A] सुपारी शिल्प
[B] काष्ठ शिल्प
[C] मृत्तिका शिल्प
[D] लौह शिल्प
9. उस्ताद हाफिज़ अली खाँ एक प्रसिद्ध _____ थे।
[A] गायक
[B] तबला वादक
[C] शहनाई वादक
[D] सरोद वादक
10. हीड गायन की प्रथा किस क्षेत्र में है?
[A] बुन्देलखण्ड
[B] बघेलखण्ड
[C] मालवा
[D] निमाड़



SECTION—A

General Studies

1. Territorial rights of Bodhi Dynasty extended over which region in Third Century AD?
[A] Malwa
[B] Tripuri
[C] Nimad
[D] Shivpuri
2. The hero of Bundela revolt Hirde Shah was arrested during which Governor's Generalship?
[A] Lord Hastings
[B] Lord Ellenborough
[C] Lord Dalhousie
[D] None of them
3. The organization of Mahakaushal Swaraj Party took place under the leadership of
[A] Nathuram Modi
[B] Thakur Laxman Singh
[C] Seth Govind Das
[D] None of them
4. In which district of Madhya Pradesh was the Jungle Satyagraha held first?
[A] Rewa
[B] Khandwa
[C] Seoni
[D] None of the above
5. Which among the following Sanskrit poetry literatures was composed by Gond king Sangram Shah?
[A] Sangramsaheey Vivekdeepika
[B] Rasratnamala
[C] Hridaya Kautuk
[D] Hridaya-Prakash
6. In which district of Madhya Pradesh is the fair of Kaluji Maharaj held?
[A] Khargone
[B] Betul
[C] Balaghat
[D] Damoh
7. During the reign of which of the following rulers, was the construction of Saas-Bahu temple completed?
[A] Mahipal
[B] Suryapal
[C] Padmapal
[D] Devpal
8. Agariya tribe is known for which of the following crafts?
[A] Areca craft
[B] Wood craft
[C] Terracotta craft
[D] Iron craft
9. Ustad Hafiz Ali Khan was a famous
[A] singer
[B] tabla player
[C] clarinetist
[D] sarod player
10. To which region is the practice of Heed Gayan related?
[A] Bundelkhand
[B] Baghelkhand
[C] Malwa
[D] Nimad



11. निम्नलिखित में से कौन-सा पहाड़ियों का समूह पश्चिमी सतपुड़ा श्रृंखला में स्थित है?

- [A] गाविलगढ़-कालीभीत-गोंडवाना की पहाड़ियां
- [B] महादेव-मैकल-राजपिपला की पहाड़ियां
- [C] बीजागढ़-बड़वानी-असीरगढ़ की पहाड़ियां
- [D] डिंडोरी-मैकल-बैहर की पहाड़ियां

12. 'इण्डिया स्टेट ऑफ फारेस्ट रिपोर्ट, 2019' के अनुसार, मध्य प्रदेश के कितने प्रतिशत भूभाग पर वन पाए जाते हैं?

- [A] 20-14 प्रतिशत
- [B] 25-14 प्रतिशत
- [C] 30-14 प्रतिशत
- [D] 33-14 प्रतिशत

13. वैनगंगा नदी अपवाह क्षेत्र निम्नलिखित में से किस अपवाह तंत्र का हिस्सा है?

- [A] नर्मदा अपवाह तंत्र
- [B] गोदावरी अपवाह तंत्र
- [C] ताप्ती अपवाह तंत्र
- [D] महानदी बेसिन

14. कथन (A) : मध्य प्रदेश के उत्तर-पश्चिमी भाग पर मुख्यतः कटीले वन एवं झाड़ियां पाई जाती हैं।

कारण (R) : मध्य प्रदेश का पश्चिमोत्तर भाग अर्द्धशुष्क जलवायु का क्षेत्र है।

निम्नांकित कूट की मदद से सही उत्तर चुनिए :

- [A] (A) और (R) दोनों सही हैं और (R), (A) का सही स्पष्टीकरण है
- [B] (A) और (R) दोनों सही हैं, परन्तु (R), (A) का सही स्पष्टीकरण नहीं है।
- [C] (A) सही है, परन्तु (R) गलत है।
- [D] (A) गलत है, परन्तु (R) सही है।

15. तापमान की दृष्टि से मध्य प्रदेश का अधिकांश भाग, निम्नांकित में से किस वर्ग में आता है?

- [A] सूक्ष्मतापीय
- [B] अतितापीय
- [C] अतिरेक तापीय
- [D] शून्य तापीय

16. मध्य प्रदेश में भूमिगत जल संसाधन का अतिशोषण करने वाले जिले, निम्नलिखित में से किस क्षेत्र में केन्द्रित हैं?

- [A] नर्मदा घाटी
- [B] छिंदवाड़ा-बैतूल क्षेत्र
- [C] बघेलखण्ड क्षेत्र
- [D] मालवा क्षेत्र

17. मुरैना जिला में फैला कैलारस क्षेत्र, निम्नलिखित में से किस खनिज के निक्षेप के लिए जाना जाता है?

- [A] बॉक्साइट
- [B] मैंगनीज
- [C] चूना पत्थर
- [D] लौह अयस्क

18. मध्य प्रदेश का पाथाखेड़ा कोयला क्षेत्र किस जिले में स्थित है?

- [A] छिंदवाड़ा
- [B] बैतूल
- [C] सिंगरौली
- [D] शहडोल



11. Which of the following hill-groups is located in the Western Satpura range?
- [A] Gawilgarh-Kalibhit, Gondwana hills
 - [B] Mahadeo, Maikal, Rajpipla hills
 - [C] Bijargarh, Barwani, Asirgarh hills
 - [D] Dindori, Maikal, Baihar hills
12. What proportion of total area of Madhya Pradesh is under forest cover, according to the India State of Forest Report, 2019?
- [A] 20.14 percent
 - [B] 25.14 percent
 - [C] 30.14 percent
 - [D] 33.14 percent
13. The Wainganga river drainage area is part of which drainage system of the following?
- [A] Narmada drainage system
 - [B] Godavari drainage system
 - [C] Tapti drainage system
 - [D] Mahanadi basin
14. **Assertion (A)** : In the North-western part of Madhya Pradesh, thorn forest and shrubs are found.
Reason (R) : North-western part of Madhya Pradesh is an area of semi-arid climate.
Select the **correct** option from the following codes :
- [A] Both **(A)** and **(R)** are true and **(R)** is the correct explanation of **(A)**
 - [B] Both **(A)** and **(R)** are true but **(R)** is not the correct explanation of **(A)**
 - [C] **(A)** is true but **(R)** is false
 - [D] **(A)** is false but **(R)** is true
15. In terms of temperature, under which one of the following classes does major part of Madhya Pradesh fall?
- [A] Microthermal
 - [B] Megathermal
 - [C] Extreme thermal
 - [D] Zero thermal
16. In Madhya Pradesh, districts over-exploiting groundwater resource are concentrated mainly in which of the following regions?
- [A] Narmada valley
 - [B] Chhindwara-Betul region
 - [C] Baghelkhand region
 - [D] Malwa region
17. Kailaras area, spreading in Morena district, is known for the deposit of which of the following minerals?
- [A] Bauxite
 - [B] Manganese
 - [C] Limestone
 - [D] Iron Ore
18. Pathakhera Coalfield of Madhya Pradesh is located in which district?
- [A] Chhindwara
 - [B] Betul
 - [C] Singrauli
 - [D] Shahdol



19. निम्नलिखित सूची—I को सूची—II से सुमेलित कीजिए तथा उनके नीचे दिए गए कूट की मदद से सही उत्तर चुनिए :

सूची—I (प्रोजेक्ट का नाम)	सूची—II (बेसिन ऑफ लोकेशन)
(a) बाणसागर	(i) हलाली
(b) इन्दिरा सागर	(ii) वैनगंगा
(c) सम्राट अशोक सागर	(iii) सोन
(d) संजय सरोवर	(iv) नर्मदा

निम्नांकित कूट की मदद से सही उत्तर चुनिए।

- [A] (a)-(i), (b)-(ii), (c)-(iii), (d)-(iv)
[B] (a)-(ii), (b)-(iii), (c)-(iv), (d)-(i)
[C] (a)-(iii), (b)-(iv), (c)-(i), (d)-(ii)
[D] (a)-(iv), (b)-(i), (c)-(ii), (d)-(iii)

20. राजघाट बहु-उद्देश्यीय परियोजना, निम्नांकित में से किन दो राज्यों की संयुक्त परियोजना है?

- [A] मध्य प्रदेश-उत्तर प्रदेश
[B] मध्य प्रदेश-राजस्थान
[C] मध्य प्रदेश-महाराष्ट्र
[D] मध्य प्रदेश-गुजरात

21. 91वें संविधान संशोधन, 2003 के द्वारा उपबन्धित किसी राज्य में मुख्यमंत्री सहित मंत्रियों की कुल संख्या विधानसभा के कुल सदस्यों की संख्या के कितने प्रतिशत से अधिक नहीं होगी?

- [A] 15 प्रतिशत
[B] 20 प्रतिशत
[C] 22 प्रतिशत
[D] 25 प्रतिशत

22. मध्य प्रदेश विधानसभा का सदस्य बनने के लिये न्यूनतम आयु कितने वर्ष होना आवश्यक है?

- [A] 18 वर्ष
[B] 21 वर्ष
[C] 25 वर्ष
[D] 30 वर्ष

23. मध्य प्रदेश पंचायती राज विधेयक, 1993, किस विधानसभा में स्थापित किया गया था?

- [A] आठवीं
[B] ग्यारहवीं
[C] दसवीं
[D] नौवीं

24. मध्य प्रदेश योजना आयोग का गठन कब हुआ था?

- [A] 12 अक्टूबर, 1972
[B] 24 अक्टूबर, 1972
[C] 12 अक्टूबर, 1978
[D] 24 अक्टूबर, 1978



19. Match the following **List—I** with **List—II** and choose the correct answer with the help of **codes** given below :

List—I	List—II
(Name of Project)	(Basin of location)
(a) Bansagar	(i) Halali
(b) Indira Sagar	(ii) Wainganga
(c) Samrat Ashok Sagar	(iii) Son
(d) Sanjay Sarovar	(iv) Narmada

Choose the **correct** answer with the help of the following codes :

- [A] (a)-(i), (b)-(ii), (c)-(iii), (d)-(iv)
[B] (a)-(ii), (b)-(iii), (c)-(iv), (d)-(i)
[C] (a)-(iii), (b)-(iv), (c)-(i), (d)-(ii)
[D] (a)-(iv), (b)-(i), (c)-(ii), (d)-(iii)
20. Rajghat Multipurpose Project is a joint project of which of the following two States?
- [A] Madhya Pradesh-Uttar Pradesh
[B] Madhya Pradesh-Rajasthan
[C] Madhya Pradesh-Maharashtra
[D] Madhya Pradesh-Gujarat
21. Provided by the 91st Constitutional Amendment, 2003, the total number of ministers including the Chief Minister in a State shall **not** exceed by what percent of the total number of members of the Legislative Assembly?
- [A] 15 percent
[B] 20 percent
[C] 22 percent
[D] 25 percent

22. What is the minimum age required to become a member the Madhya Pradesh Legislative Assembly?

- [A] 18 years
[B] 21 years
[C] 25 years
[D] 30 years

23. In which Legislative Assembly, was the Madhya Pradesh Panchayati Raj Bill, 1993 established?

- [A] Eighth
[B] Eleventh
[C] Tenth
[D] Ninth

24. When was the Madhya Pradesh Planning Commission formed?

- [A] 12th October, 1972
[B] 24th October, 1972
[C] 12th October, 1978
[D] 24th October, 1978



25. कारखाना/कारखाने मुख्यतः चूने के भंडार के आस-पास किसके लिए स्थापित किये जाते हैं?

- (a) सीमेन्ट
- (b) लौह अयस्क
- (c) प्लास्टिक
- (d) सूती कपड़ा

सही विकल्प का चुनाव करें :

- [A] केवल (a)
- [B] केवल (a) और (c)
- [C] केवल (a), (b) और (c)
- [D] केवल (b) और (d)

26. निम्न में से कौन-सा जिला, शक्कर उद्योग से सम्बन्धित नहीं है?

- [A] बुरहानपुर
- [B] हरदा
- [C] नरसिंहपुर
- [D] उपरोक्त में से कोई नहीं

27. 2019-21 के मध्य हुए राष्ट्रीय परिवार स्वास्थ्य सर्वेक्षण-5 के अनुसार, मध्य प्रदेश की कुल शिशु मृत्यु दर कितनी थी?

- [A] 51.2
- [B] 41.3
- [C] 46.4
- [D] 29.0

28. "राज्यपाल का कार्य मेहमानों की इज्जत करना, उनको चाय, भोजन तथा दावत देने के अलावा कुछ नहीं है"। यह कथन किसका है?

- [A] पं० गोविन्द बल्लभ पंत
- [B] डॉ० पट्टाभि सीतारमैया
- [C] डॉ० शंकर दयाल शर्मा
- [D] डॉ० बी० आर० अम्बेडकर

29. विशेष आर्थिक क्षेत्र 'क्रिस्टल आई०टी० पार्क' निम्न में से किस शहर में अवस्थित है?

- [A] भोपाल
- [B] इन्दौर
- [C] जबलपुर
- [D] ग्वालियर

30. जनगणना 2001 के आंकड़ों के अनुसार, कौन-सा युग्म सुमेलित नहीं है?

राज्य	जनसंख्या घनत्व (2001)
[A] पश्चिम बंगाल	903
[B] मध्य प्रदेश	196
[C] छत्तीसगढ़	154
[D] उत्तर प्रदेश	740

31. संयुक्त राष्ट्र महासभा के 78वें सत्र के अध्यक्ष के रूप में किसे चुना गया है?

- [A] डेनिस फ्रांसिस
- [B] कार्लोस हेड
- [C] जस्टिन क्रोज़
- [D] नेल्सन मंडेला

32. हाल ही में चर्चा में रहा हेलमंद नदी विवाद, किन दो देशों से सम्बन्धित है?

- [A] यूक्रेन और रूस
- [B] अफगानिस्तान और ईरान
- [C] अमेरिका और कनाडा
- [D] भारत और अफगानिस्तान



25. Factory/Factories are mainly established near lime deposits for

- (a) Cement
- (b) Iron Ore
- (c) Plastic
- (d) Cotton Fabric

Choose the **correct** option :

- [A] Only (a)
- [B] Only (a) and (c)
- [C] Only (a), (b) and (c)
- [D] Only (b) and (d)

26. Which of the following districts is **not** related to sugar industry?

- [A] Burhanpur
- [B] Harda
- [C] Narsinghpur
- [D] None of the above

27. According to National Health Family Survey-5, which was conducted during 2019-21, the total Infant Mortality Rate of Madhya Pradesh was

- [A] 51.2
- [B] 41.3
- [C] 46.4
- [D] 29.0

28. "The Governor's work is nothing but to honour the guests, to serve them tea, food and feast." Whose statement is this?

- [A] Pt. Govind Ballabh Pant
- [B] Dr. Pattabhi Sitaramaiya
- [C] Dr. Shankar Dayal Sharma
- [D] Dr. B. R. Ambedkar

29. In which of the following cities, is the Special Economic Zone 'Crystal IT Park' located?

- [A] Bhopal
- [B] Indore
- [C] Jabalpur
- [D] Gwalior

30. According to Census 2001, which group is **not correctly** matched?

State	Population Density (2001)
[A] West Bengal	903
[B] Madhya Pradesh	196
[C] Chhattisgarh	154
[D] Uttar Pradesh	740

31. Who has been elected as the President of the 78th session of the United Nations General Assembly?

- [A] Dennis Francis
- [B] Carlos Head
- [C] Justin Kroes
- [D] Nelson Mandela

32. The recently discussed Helmand River dispute was between which two countries?

- [A] Ukraine and Russia
- [B] Afghanistan and Iran
- [C] America and Canada
- [D] India and Afghanistan



33. पहली महिला कबड्डी लीग (WKL) का खिताब किसने जीता?

- [A] ग्रेट मराठाज़
- [B] हरियाणा हसलर्स
- [C] पंजाब पैथर्स
- [D] उमा कोलकाता

34. हाल ही में, वर्ष 2023 का जूनियर हॉकी राष्ट्रीय चैंपियनशिप (पुरुष) का खिताब किस राज्य ने जीता है?

- [A] मध्य प्रदेश
- [B] उत्तर प्रदेश
- [C] जम्मू और कश्मीर
- [D] ओड़िशा

35. हाल ही में जारी की गई फीफा 2023 रैंकिंग में भारत का रैंक क्या है?

- [A] 98 वां
- [B] 99 वां
- [C] 103 वां
- [D] 104 वां

36. 'मेरा गाँव मेरा तीर्थ योजना' मध्य प्रदेश के किस जिले से प्रारंभ की गई है?

- [A] हरदा
- [B] भोपाल
- [C] निवाड़ी
- [D] सागर

37. किस राज्य में डॉ० भीमराव अम्बेडकर की 125 फीट ऊँची प्रतिमा का अनावरण किया गया है?

- [A] महाराष्ट्र
- [B] मध्य प्रदेश
- [C] छत्तीसगढ़
- [D] तेलंगाना

38. मध्य प्रदेश राज्य में कुल कितने साईबर तहसील स्थापित किये जाएंगे?

- [A] 4
- [B] 6
- [C] 8
- [D] 10

39. 17वाँ प्रवासी भारतीय दिवस कहाँ आयोजित किया गया?

- [A] वाराणसी
- [B] गोवा
- [C] इन्दौर
- [D] दिल्ली

40. मध्य प्रदेश का पहला मेडिकल डिवाइस पार्क कहाँ स्थापित किया जा रहा है?

- [A] उज्जैन
- [B] भोपाल
- [C] सागर
- [D] सीहोर

41. इंटरफेस रिपीटर का उपयोग OSI मॉडल की किस लेयर पर किया जाता है?

- [A] सेशन लेयर
- [B] फिजिकल लेयर
- [C] डेटा लिंक लेयर
- [D] नेटवर्क लेयर

42. निम्नलिखित में से कौन-सा, एक स्थिर एल्गोरिदम है?

- [A] सिलेक्शन सॉर्ट
- [B] क्विक सॉर्ट
- [C] हीप सॉर्ट
- [D] काउन्टिंग सॉर्ट



33. Who won the first Women's Kabaddi League (WKL) title?
[A] Great Marathas
[B] Haryana Hustlers
[C] Punjab Panthers
[D] Uma Kolkata
34. Which State has recently won the Junior Hockey National Championship (Men) title, in the year 2023?
[A] Madhya Pradesh
[B] Uttar Pradesh
[C] Jammu and Kashmir
[D] Odisha
35. What is India's rank in the recently released FIFA 2023 ranking?
[A] 98th
[B] 99th
[C] 103rd
[D] 104th
36. "Mera Gaon Mera Teerth Yojna" was started from which district of Madhya Pradesh?
[A] Harda
[B] Bhopal
[C] Niwari
[D] Sagar
37. In which State has a 125 feet tall statue of Dr. Bhimrao Ambedkar been unveiled?
[A] Maharashtra
[B] Madhya Pradesh
[C] Chhattisgarh
[D] Telangana
38. How many cyber tehsils will be established in the State of Madhya Pradesh?
[A] 4
[B] 6
[C] 8
[D] 10
39. Where was the 17th Pravasi Bhartiya Divas organised?
[A] Varanasi
[B] Goa
[C] Indore
[D] Delhi
40. Where is the first medical device park of Madhya Pradesh being set up?
[A] Ujjain
[B] Bhopal
[C] Sagar
[D] Sehore
41. The interface repeater is used at which layer of the OSI Model?
[A] Session layer
[B] Physical layer
[C] Data link layer
[D] Network layer
42. Which one of the following is a stable algorithm?
[A] Selection sort
[B] Quick sort
[C] Heap sort
[D] Counting sort



43. सफल ई-गवर्नमेंट कार्यान्वयन के लिए, निम्नलिखित में से कौन-सी सबसे बुनियादी आवश्यकता है?

- [A] आई०सी०टी० इन्फ्रास्ट्रक्चर
- [B] संस्थागत ढांचा
- [C] आई०सी०टी०-साक्षर नागरिकता
- [D] उपरोक्त सभी

44. ई-प्रोक्वोरमेंट किसका एक उदाहरण है?

- [A] सरकार से सरकार (G2G)
- [B] सरकार से नागरिक (G2C)
- [C] सरकार से व्यापार (G2B)
- [D] सरकार से कर्मचारी (G2E)

45. निम्नलिखित में से कौन, HTML वेब पेज को पढ़ और प्रस्तुत कर सकता है?

- [A] सर्वर
- [B] वेब ब्राउजर
- [C] हेड टैग
- [D] उपरोक्त में से कोई नहीं

46. सिंपल मेल ट्रांसफर प्रोटोकॉल (SMTP) पोर्ट नंबर _____ पर संचालित होता है।

- [A] 160
- [B] 80
- [C] 25
- [D] 32

47. उपभोक्ताओं के बीच सूचना या वित्तीय लेनदेन, लेकिन आमतौर पर किसी व्यवसाय के माध्यम से मध्यस्थता को कहा जाता है

- [A] B2B
- [B] B2C
- [C] C2C
- [D] G2C

48. निम्नलिखित में से कौन-सा विज्ञापन आधारित ऑनलाइन राजस्व मॉडल नहीं है?

- [A] CPC
- [B] CPA
- [C] CPM
- [D] उपरोक्त में से कोई नहीं

49. मैन-इन-द-मिडिल अटैक, निम्नलिखित में से किस एल्गोरिदम में पाया जाता है?

- [A] RSA एल्गोरिदम
- [B] डिफ़ी-हेलमैन एल्गोरिदम
- [C] [A] और [B] दोनों
- [D] न तो [A] और न ही [B]

50. 8-क्वीन प्रॉब्लम, निम्नलिखित में से किस सर्चिंग मेकनिज़म से सम्बन्धित है?

- [A] लिनियर सर्च
- [B] डेप्थ फर्स्ट सर्च
- [C] हिल-क्लाइम्बिंग सर्च
- [D] उपरोक्त में से कोई नहीं



43. Which one of the following is the most basic requirement for successful e-Government?

- [A] ICT infrastructure
- [B] Institutional framework
- [C] ICT-literate citizenry
- [D] All of the above

44. E-Procurement is an example of

- [A] Government to Government (G2G)
- [B] Government to Citizen (G2C)
- [C] Government to Business (G2B)
- [D] Government to Employee (G2E)

45. Which of the following can read and render HTML web page?

- [A] Server
- [B] Web browser
- [C] Head Tag
- [D] None of the above

46. Simple Mail Transfer Protocol (SMTP) operates at the port no.

- [A] 160
- [B] 80
- [C] 25
- [D] 32

47. Information or financial transactions between consumers but usually mediated through a business is called

- [A] B2B
- [B] B2C
- [C] C2C
- [D] G2C

48. Which one of the following is **not** an advertisement based online revenue model?

- [A] CPC
- [B] CPA
- [C] CPM
- [D] None of the above

49. The Man-in-the-Middle attack is found in which of the following algorithms?

- [A] RSA algorithm
- [B] Diffie-Hellman algorithm
- [C] Both [A] and [B]
- [D] Neither [A] nor [B]

50. 8-queen problem is associated with which of the following searching mechanisms?

- [A] Linear search
- [B] Depth First search
- [C] Hill-Climbing search
- [D] None of the above



SECTION—B

Animal Husbandry and Veterinary Science

51. As per the basic Animal Husbandry Statistics (2022), top three milk producing States of India (in decreasing order of production) are
- [A] Gujarat, Rajasthan, Uttar Pradesh
 - [B] Rajasthan, Uttar Pradesh, Madhya Pradesh
 - [C] Madhya Pradesh, Gujarat, Rajasthan
 - [D] Andhra Pradesh, Rajasthan, Madhya Pradesh
52. As per the basic Animal Husbandry Statistics report (2022), annual per capita availability of eggs in India during the year 2021–22 was _____ (in numbers).
- [A] 155
 - [B] 65
 - [C] 95
 - [D] 35
53. National Kamdhenu Breeding Centre for conservation and development of bovine breeds in India was established at
- [A] Uttar Pradesh and Madhya Pradesh
 - [B] Madhya Pradesh and Gujarat
 - [C] Punjab and Rajasthan
 - [D] Madhya Pradesh and Andhra Pradesh
54. Which of the following is **not** a sub-mission of National Livestock Mission of India?
- [A] Feed and fodder development
 - [B] Disease surveillance and diagnostics
 - [C] Breed development of livestock and poultry
 - [D] Extension and innovation
55. The Prevention of Cruelty to Animals Act was enacted in the year
- [A] 1984
 - [B] 1965
 - [C] 1960
 - [D] 1972
56. Animal Welfare Board of India (AWBI) is dealt with under which Chapter of the Prevention of Cruelty to Animals (PCA) Act?
- [A] Chapter I
 - [B] Chapter II
 - [C] Chapter III
 - [D] Chapter IV
57. Stiffening of dead body is known as
- [A] algor mortis
 - [B] livor mortis
 - [C] pallor mortis
 - [D] rigor mortis



58. If _____ is the suspected cause of death, do not open the carcass, unless biosafety level-III facilities are available.
- [A] brucellosis
 - [B] foot and mouth disease
 - [C] Ranikhet disease
 - [D] anthrax
59. As per the Drugs and Cosmetics Act, 1940, functions of laboratory for antisera, toxoids, vaccines and diagnostic antigens for veterinary use should be carried out at
- [A] National Institute of Biologicals, Noida
 - [B] Indian Veterinary Research Institute, Mukteshwar
 - [C] National Dairy Research Institute, Karnal
 - [D] Central Drug Research Institute, Lucknow
60. Which of the following breeds of cattle is commonly used for 'Jallikattu' during Pongal festival?
- [A] Khillari
 - [B] Pulikulam
 - [C] Mewati
 - [D] Nagori
61. Which organ(s) in birds is/are sites for the conversion of ammonia to uric acid?
- [A] Liver
 - [B] Lungs
 - [C] Kidneys
 - [D] Both [A] and [C]
62. Which observation might you make during thorough physical examination in the initial stage of hypovolemic shock in dogs?
- [A] Tachycardia
 - [B] Weak arterial pulse
 - [C] Pale mucous membrane
 - [D] All of the above
63. Generalised pulmonary vasoconstriction due to alveolar hypoxia is observed in some cattle
- [A] at sea level
 - [B] below sea level
 - [C] in hot areas
 - [D] at high altitudes
64. Which one of the following cells become more prevalent in circulating blood during a prolonged period of erythropoietin secretion?
- [A] Reticulocytes
 - [B] Eosinophils
 - [C] Monocytes
 - [D] Platelets
65. What is the correct time of ovulation in cattle?
- [A] 1-2 days before end of estrus
 - [B] 10-15 hours after end of estrus
 - [C] 30-36 hours after onset of estrus
 - [D] 15-25 hours after end of estrus



66. Which anatomical structure is of fundamental importance for contraction and release of milk from the udder?
- [A] Teat cistern
 - [B] Duet cistern
 - [C] Alveoli
 - [D] Myoepithelial cell
67. Which bursa is present between the ligamentum nuchae and atlas?
- [A] Bicipital bursa
 - [B] Supraspinous bursa
 - [C] Superficial bursa
 - [D] Atlantal bursa
68. During which phase of mitotic cell division, the nuclear membrane and nucleolus disappear?
- [A] Prophase
 - [B] Metaphase
 - [C] Anaphase
 - [D] Telophase
69. What is fremitus?
- [A] Vibration of blood within ovarian artery
 - [B] Vibration of blood within uterine artery
 - [C] Vibration of blood within vaginal artery
 - [D] Vibration in corpus luteum
70. Which of the following statements is **correct**?
- [A] Compact bone is composed of spicules filled with marrow
 - [B] Cancellous bone is the layer of hard tissue that constitutes the exterior of most of the bones
 - [C] Epiphysis refers to either end of a long bone
 - [D] Diaphysis refers to either end of a long bone
71. Brown Swiss cattle breed's country of origin is
- [A] Holland
 - [B] Switzerland
 - [C] Scotland
 - [D] None of the above
72. Rhode Island Red [RIR] breed of chicken belongs to which class?
- [A] Mediterranean class
 - [B] English class
 - [C] Asiatic class
 - [D] American class
73. In order to obtain the greatest amount, once the 'Let down' has occurred, the act of milking in cow should be completed within
- [A] 5-7 minutes
 - [B] 7-10 minutes
 - [C] 10-12 minutes
 - [D] 12-15 minutes



74. A diversified farm is one on which the farmer derives income from several commodities or sources, but income from no single source is more than
- [A] 60%
 - [B] 50%
 - [C] 70%
 - [D] 75%
75. During moulting process, the feathers on different parts of the body of hen are shed in which of the following orders?
- [A] Head - Neck - Breast - Body - Wings - Tails
 - [B] Head - Body - Breast - Neck - Wings - Tails
 - [C] Tails - Wings - Body - Breast - Neck - Head
 - [D] Tails - Body - Breast - Wings - Neck - Head
76. For better hatchability in fertile eggs stored for seven or less days, the temperature of the room holding the eggs should be
- [A] 16 °C
 - [B] 24 °C
 - [C] 26 °C
 - [D] 28 °C
77. In tail to tail system, under the average condition, man hours of labour required per cow per year is
- [A] 125-150
 - [B] 225-250
 - [C] 325-350
 - [D] None of the above
78. Lactation records in cow are expressed on
- [A] 105 days basis
 - [B] 205 days basis
 - [C] 305 days basis
 - [D] None of the above
79. In a good layer chicken, the distance between keel and pubic bones must be
- [A] less than 2 fingers
 - [B] 2-5 fingers
 - [C] more than 6 fingers
 - [D] None of the above
80. The 'vent sexing' method of sexing day-old chicks was originally developed in
- [A] America
 - [B] Japan
 - [C] India
 - [D] China
81. Which of the following involves the irreversible destruction of the crystalline order in starch granules to make the surface of every molecule accessible to solvents for improving digestibility?
- [A] Reconstitution
 - [B] Extruding
 - [C] Pelleting
 - [D] Micronizing



82. For the first three weeks, calf should be provided whole milk at the rate of
- [A] 50% of body weight
 - [B] 30% of body weight
 - [C] 10% of body weight
 - [D] 100% of body weight
83. Prepartum feeding of which of the following diets will significantly minimize the occurrence of parturient paresis in dairy cows?
- [A] Negative DCAD diet
 - [B] High energy diet
 - [C] Positive DCAD diet
 - [D] Low roughage diet
84. Feeding of concentrate mixture from two weeks before calving is called as
- [A] creep feeding
 - [B] challenge feeding
 - [C] phase feeding
 - [D] restricted feeding
85. The proportion of the absorbed nitrogen that is retained by the animal body and utilized for synthesizing body tissue is known as
- [A] carbon-nitrogen balance
 - [B] protein replacement value
 - [C] chemical score
 - [D] biological value
86. In the process of hay making, much of the green colouring matter containing carotene is lost due to
- [A] fermentation
 - [B] leaching
 - [C] bleaching
 - [D] early cutting
87. Hairless calves and piglets with thick, pulpy skin are born due to deficiency of which of the following minerals in the diet of cow and sow?
- [A] Cu
 - [B] Mg
 - [C] I
 - [D] S
88. Dry matter requirement for a cow weighing 400 kg, giving 10 litres of milk having 4-5% fat is
- [A] 2 kg
 - [B] 4 kg
 - [C] 10 kg
 - [D] 20 kg
89. Plants which contain significant amount of saponins are
- [A] mustard and rapeseed
 - [B] sorghum and sudan
 - [C] lucerne and soybean
 - [D] subabul and sweet clover



90. Energy calculated as the gross energy provided by a unit of feed minus the gross energy content of the faeces resulting from the consumption of that unit of feed is called as

- [A] metabolizable energy
- [B] digestible energy
- [C] heat increment
- [D] net energy

91. Which of the following statements indicates about narrow-sense heritability?

- [A] It is the ratio of genetic variance to total phenotypic variance
- [B] It is the ratio of environmental variance to total phenotypic variance
- [C] It is the ratio of additive genetic variance to total phenotypic variance
- [D] It is the ratio of phenotypic variance to total environmental variance

92. In which of the following conditions, the intensity of selection will be high?

- [A] When selected proportion is smaller
- [B] When environmental variation is high
- [C] When selected proportion is higher
- [D] When phenotypic variance is higher

93. Which of the following is the **correct** explanation of outcrossing?

- [A] Mating between individuals of different breeds
- [B] Mating between unrelated animals within same breed
- [C] Mating between indigenous and exotic breeds
- [D] Mating between pure breed with non-descript animal

94. In 'Grading-up' breeding program, what will be the percentage inheritance of purebred in 5th generation female?

- [A] 92.5%
- [B] 99.8%
- [C] 96.9%
- [D] 93.8%

95. The coordinating unit of All India Coordinated Research Project (AICRP) on Goat Improvement is presently located at which of the following institutes?

- [A] NDRI, Karnal, Haryana
- [B] IVRI, Izzatnagar, Uttar Pradesh
- [C] CIRG, Makhdoom, Mathura, (UP)
- [D] CSWRI, Avikanagar, Rajasthan



96. When the average fitness of the population is reduced due to change in gene frequency by selection, the individual suffers their failure to survive or reproduce. This situation is called

- [A] inbreeding
- [B] genetic death
- [C] genetic gain
- [D] hybrid vigour

97. Which of the following traits are controlled by one or few genes/loci and environment has little or no effect on their phenotypic expression?

- [A] Sex-linked traits
- [B] Qualitative traits
- [C] Quantitative traits
- [D] Sex limited traits

98. What will be the heritability range for wool quality traits like fiber diameter, staple length, crimp frequency etc.?

- [A] Less than 0.3
- [B] More than 0.5
- [C] Between 0.1 and 0.2
- [D] None of the above

99. Which of the following RNAs is involved in the selection of proteins for export?

- [A] Ribosomal RNA
- [B] Small nucleolar RNA
- [C] Small cytoplasmic RNA
- [D] Transfer RNA

100. Which of the following forms of double helical DNA, polynucleotide are in the form of right handed helix?

- [A] A-DNA and B-DNA
- [B] A-DNA and Z-DNA
- [C] B-DNA and Z-DNA
- [D] None of the above

101. As a general rule, when pH of medium and pK_a of drug are equal, 50% of the drug will be in ionized and 50% in unionized forms. When pH is one unit below the pK_a , then

- [A] an acid is 91% ionized (9% unionized)
- [B] an acid is 90% ionized (10% unionized)
- [C] an acid is 9% ionized (91% unionized)
- [D] an acid is 10% ionized (90% unionized)



102. Metabolism or biotransformation may be defined as the conversion from one chemical form of a substance to another. Conversion of sulfasalazine to 5-aminosalicylic acid is classified as which one of the following?

- [A] Pharmacological activation
- [B] Pharmacological inactivation
- [C] No change in pharmacological activity
- [D] Toxicological activation

103. Irrespective of the shape (hyperbolic, sigmoid or linear), the dose-response curve has four (4) characteristic variables. They are

- [A] potency, ED_{50} , LD_{50} , $t_{1/2}$
- [B] slope, potency, AUC, C_{max}
- [C] variance, efficacy, T_{max} , ED_{50}
- [D] efficacy, potency, slope, variance

104. Rumenotomy, an important surgical operation in veterinary practice, is performed under which type of local anaesthesia/technique?

- [A] Infiltration anaesthesia
- [B] Surface anaesthesia
- [C] Spinal/epidural anaesthesia
- [D] None of the above

105. Avermectins (macrocyclic lactone derivative) endo-ecto antiparasitic drugs, that work by increasing the release of GABA causing hyperpolarization and inhibit contraction of muscles of parasites, have the following pharmacokinetic features, **except**

- [A] slow disposition kinetics
- [B] fast disposition kinetics
- [C] sustained presence in target tissues
- [D] extended antiparasitic persistence

106. The following groups of antibacterial agents are used extensively in veterinary practice all over the world for treating respiratory, digestive, genito-urinary and skin infections including mycoplasma and salmonellosis in poultry. Amongst the following, which one produces arthropathy in young growing animals?

- [A] Aminoglycosides
- [B] Cephalosporins
- [C] Tetracyclines
- [D] Fluoroquinolones

107. Bracken fern plant toxicity is produced mainly in horses and cattle due to the presence of one of the toxic factors mentioned below. Identify it.

- [A] Thiaminase
- [B] Ptaquiloside
- [C] Hematuria factor
- [D] Aplastic anaemia factor



108. Identify one of the poisonous objects mentioned below in which the blood becomes chocolate coloured due to formation of methaemoglobin, tissues may be stained brown and mucous membrane becomes cyanotic in animals.

- [A] Carbon monoxide
- [B] Nitrate
- [C] *Lantana camara*
- [D] Cyanide

109. Vincristine, an alkaloid of plant *Vinca rosea* and used as an antineoplastic agent in veterinary practice, acts as

- [A] antibiotic
- [B] alkylating agent
- [C] microtubular toxin
- [D] antimetabolite drug

110. Plants are miracle laboratories of nature to provide various kinds of drugs and medicines. Which one of the following indigenous medicinal plants has the significant lactogenic property?

- [A] *Jasminum multiflorum*
- [B] *Terminalia arjuna*
- [C] *Leptadenia reticulata*
- [D] *Rauwolfia serpentina*

111. Adulteration of milk with ____ is detected by rosolic acid test.

- [A] calcium carbonate
- [B] sodium bicarbonate
- [C] milk powder
- [D] cane sugar

112. One litre of normal milk from milch animal contains approximately ____ gram of water.

- [A] 560 to 580
- [B] 760 to 780
- [C] 860 to 880
- [D] None of the above

113. In a slaughterhouse, postmortem inspection of poultry must be conducted in a premises with light intensity of ____ lux.

- [A] 110
- [B] 540
- [C] 220
- [D] 360



114. During butter making, a maximum of ____ percent overrun can be obtained.

[A] 10

[B] 15

[C] 30

[D] 25

115. In a positive phosphatase test, a para-nitrophenol is liberated that gives ____ colour under alkaline condition.

[A] pink

[B] violet

[C] blue

[D] yellow

116. Normal Butyro-Refractometer (BR) reading of ghee at 40 °C varies from

[A] 40-45

[B] 20-25

[C] 30-35

[D] 50-55

117. For antemortem and postmortem inspections of meat animals (First Revision), ____ is the mandatory code of practice in India.

[A] IS : 1723-1973

[B] IS : 1981-1978

[C] IS : 1982-1971

[D] None of the above

118. Sandiness defect during ice-cream making is due to higher content of

[A] stabilizer

[B] lactose

[C] fat

[D] emulsifier

119. Standardization of cheese milk during cheese making is adjustment of casein/fat ratio of

[A] 0.48 to 0.50

[B] 0.86 to 0.90

[C] 0.68 to 0.70

[D] 0.78 to 0.80



120. Standard Plate Count (SPC) of pasteurized milk should not exceed _____ per ml.

- [A] 40000 cfu
- [B] 20000 cfu
- [C] 30000 cfu
- [D] None of the above

121. The Intensive Cattle Development Project (ICDP) was launched in India in which of the following years?

- [A] 1964-65
- [B] 1970-71
- [C] 1951-52
- [D] 1980-81

122. Match **List-I** with **List-II** regarding the alternate words of extension :

List-I

List-II

- | | |
|---------------------|-------------|
| (i) Voorlichting | (a) Spanish |
| (ii) Aufklarung | (b) French |
| (iii) Vulgarisation | (c) Dutch |
| (iv) Capacitación | (d) German |

Which of the following options is **correct** based on the matching of **List-I** with **List-II**?

- [A] (i)-(d), (ii)-(b), (iii)-(c), (iv)-(a)
- [B] (i)-(a), (ii)-(c), (iii)-(d), (iv)-(b)
- [C] (i)-(b), (ii)-(a), (iii)-(d), (iv)-(c)
- [D] (i)-(c), (ii)-(d), (iii)-(b), (iv)-(a)

123. The practice of raising livestock, specially cattle and sheep on large tracts of public land, is called as

- [A] ley farming
- [B] collective farming
- [C] peasant farming
- [D] ranching

124. "Operation Flood" programme was launched in India in which of the following years?

- [A] 1970
- [B] 1975
- [C] 1960
- [D] 1965

125. Which of the following are considered as the recognised principle of cooperative society?

- (i) Patronage individual
- (ii) Voluntary membership
- (iii) Promotion of education
- (iv) Mutuality

Which of the following options are **correct** based on the question?

- [A] Only (ii), (iii) and (iv)
- [B] Only (i) and (ii)
- [C] Only (i), (ii) and (iii)
- [D] All of the above



126. A series of illustrated cards, which when presented before a group in proper sequence, tells a complete story. It is an explanation of which of the following terms?

- [A] Flip cards
- [B] Flash cards
- [C] Pull cards
- [D] Strip tease cards

127. The Indian Society of Extension Education was founded in which of the following years?

- [A] 1954
- [B] 1984
- [C] 1964
- [D] 1974

128. "It is a process of systematic appraisal by which one can determine the value, importance and quality of something". It is the concept of which of the following?

- [A] Validation
- [B] Supervision
- [C] Monitoring
- [D] Evaluation

129. "It is a technique to study the pattern of attraction and repulsion among the members of social system". Which of the following terms is associated with this concept?

- [A] Experiment
- [B] Sociometry
- [C] Questionnaire
- [D] Spectator observation

130. Match **List—I** with **List—II** regarding institutions with their symbolic traits :

List—I

List—II

- | | |
|-----------------|------------------------|
| (i) Family | (a) Emblem, Trade-mark |
| (ii) Economic | (b) Cross, Bible |
| (iii) Political | (c) Ring, Wedding |
| (iv) Religion | (d) Flag, Codes |

Choose the **correct** option from the codes given below :

- [A] (i)-(c), (ii)-(a), (iii)-(b), (iv)-(d)
- [B] (i)-(b), (ii)-(c), (iii)-(d), (iv)-(a)
- [C] (i)-(d), (ii)-(b), (iii)-(c), (iv)-(a)
- [D] (i)-(c), (ii)-(a), (iii)-(d), (iv)-(b)

131. The amino acid required in the synthesis of melatonin in pineal gland is

- [A] tyrosine
- [B] tryptophan
- [C] glycine
- [D] methionine



132. The autoantibody response to sperm in seminal plasma is primarily of

- [A] IgG type
- [B] IgM type
- [C] IgA type
- [D] IgD type

133. The first dog was successfully artificially inseminated in the year

- [A] 1956
- [B] 1936
- [C] 1946
- [D] None of the above

134. In pigs, ovulation occurs after the onset of estrus in

- [A] 16–24 hrs
- [B] 48–60 hrs
- [C] 24–36 hrs
- [D] None of the above

135. Contagious Equine Metritis (CEM) is caused by

- [A] *Salmonella abortusovae*
- [B] *Leptospira pomona*
- [C] *Taylorella equigenitalis*
- [D] *Aspergillus* spp.

136. The commonest faulty disposition due to postural defects causing dystocia in ruminants is

- [A] carpal extension and lateral deviation of the head
- [B] carpal flexion and lateral deviation of the head
- [C] carpal extension and dorsal deviation of the head
- [D] carpal flexion and dorsal deviation of the head

137. Extra Chromic Catgut (Type D) is absorbed in about

- [A] 10 days
- [B] 40 days
- [C] 20 days
- [D] 30 days



138. Etorphine hydrochloride and oripavine derivative are extensively used for the restraint of

- [A] cattle
- [B] sheep
- [C] wild animals
- [D] goat

139. The ultra-short acting barbiturate is

- [A] phenobarbital sodium
- [B] pentobarbital sodium
- [C] thiopental sodium
- [D] None of the above

140. In myelography, the contrast material is injected into the

- [A] epidural space
- [B] extradural space
- [C] dural space
- [D] subarachnoid space

141. The 'turkey egg' appearance of the kidney is the characteristic feature of which of the following diseases?

- [A] Swine fever
- [B] Hog cholera
- [C] Streptococcus suis infection
- [D] None of the above

142. What is the best site for collection of CSF in cattle and buffalo?

- [A] Atlanto-occipital junction
- [B] Cisterna magna
- [C] Subarachnoid space
- [D] None of the above

143. Kyasanur forest disease is transmitted to man through bite of which type of tick?

- [A] *Amblyomma americanum*
- [B] *Ixodes scapularis*
- [C] *Rhipicephalus sanguineus*
- [D] *Haemaphysalis spinigera*



144. Hepatic infarct is the characteristic lesion seen in which disease of animals?

- [A] Black disease
- [B] Redwater disease
- [C] Pulpy kidney disease
- [D] None of the above

145. Which of the following is the dicoumarol derivative of rodenticides?

- [A] Warfarin
- [B] Red squill
- [C] Fluroacetate
- [D] Zinc phosphide

146. Which of the following is **not** affected by the infestation of *Gigantocotyle explanatum*?

- [A] Gall bladder
- [B] Bile duct
- [C] Renal pelvis
- [D] Duodenum

147. The mode of action of aluminium hydroxide adjuvant

- [A] pertains to macrophage stimulator
- [B] pertains to lymphocyte stimulator
- [C] stimulates antigen processing
- [D] pertains to slow-release antigen depot

148. The *Aspergillus flavus* produces aflatoxins at temperature range and humidity percentage of

- [A] 12 °C to 42 °C and 85%
- [B] -4 °C to 2 °C and 10%
- [C] 2 °C to 10 °C and 25%
- [D] None of the above

149. The pseudo-tubercles which contain action body is produced by

- [A] *Echinococcus granulosus*
- [B] *Oesophagostomum radiatum*
- [C] *Spirocerca lupi*
- [D] *Schistosoma nasale*

150. Angara disease is an acute, infectious disease of chickens caused by

- [A] Adenovirus
- [B] Birnavirus
- [C] Calicivirus
- [D] Enterovirus



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