

2014

CODE

प्रश्नपुस्तिका क्रमांक

BOOKLET NO.

प्रश्नपुस्तिका
चाळणी परीक्षा

एकूण प्रश्न : 100

वेळ : 1 1/2 (दीड) तास

एकूण गुण : 200

सूचना

(1) सदर प्रश्नपुस्तिकेत 100 अनिवार्य प्रश्न आहेत. उमेदवारांनी प्रश्नांची उत्तरे लिहिण्यास सुरुवात करण्यापूर्वी या प्रश्नपुस्तिकेत सर्व प्रश्न आहेत किंवा नाहीत याची खात्री करून घ्यावी. असा तसेच अन्य काही दोष आढळल्यास ही प्रश्नपुस्तिका समवेक्षकांकडून लगेच बदलून घ्यावी.

परीक्षा-क्रमांक	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
	↑ केंद्राची संकेताक्षरे							↑ शेवटचा अंक	

- (2) आपला परीक्षा-क्रमांक ह्या चौकोनांत न विसरता बॉलपेनने लिहावा.
- (3) वर छापलेला प्रश्नपुस्तिका क्रमांक तुमच्या उत्तरपत्रिकेवर विशिष्ट जागी उत्तरपत्रिकेवरील सूचनेप्रमाणे न विसरता नमूद करावा.
- (4) (अ) या प्रश्नपुस्तिकेतील प्रत्येक प्रश्नाला 4 पर्यायी उत्तरे सुचविली असून त्यांना 1, 2, 3 आणि 4 असे क्रमांक दिलेले आहेत. त्या चार उत्तरांपैकी सर्वात योग्य उत्तराचा क्रमांक उत्तरपत्रिकेवरील सूचनेप्रमाणे तुमच्या उत्तरपत्रिकेवर नमूद करावा. अशा प्रकारे उत्तरपत्रिकेवर उत्तरक्रमांक नमूद करताना तो संबंधित प्रश्नक्रमांकासमोर छयांकित करून दर्शविला जाईल याची काळजी घ्यावी. ह्याकरिता फक्त काळ्या शाईचे बॉलपेन वापरावे, पेन्सिल वा शाईचे पेन वापरू नये.
- (ब) आयोगाने ज्या विषयासाठी मराठी बरोबर इंग्रजी माध्यम विहित केलेले आहे. त्या विषयाचा प्रत्येक प्रश्न मराठी बरोबर इंग्रजी भाषेत देखील छापण्यात आला आहे. त्यामधील इंग्रजीतील किंवा मराठीतील प्रश्नामध्ये मुद्रणदोषांमुळे अथवा अन्य कारणांमुळे विसंगती निर्माण झाल्याची शंका आल्यास, उमेदवाराने संबंधित प्रश्न पर्यायी भाषेतील प्रश्नाशी ताडून पहावा.
- (5) सर्व प्रश्नांना समान गुण आहेत. यास्तव सर्व प्रश्नांची उत्तरे द्यावीत. घाईमुळे चुका होणार नाहीत याची दक्षता घेऊनच शक्य तितक्या वेगाने प्रश्न सोडवावेत. क्रमाने प्रश्न सोडविणे श्रेयस्कर आहे पण एखादा प्रश्न कठीण वाटल्यास त्यावर वेळ न घालविता पुढील प्रश्नाकडे वळावे. अशा प्रकारे शेवटच्या प्रश्नापर्यंत पोहोचल्यानंतर वेळ शिल्लक राहिल्यास कठीण म्हणून वगळलेल्या प्रश्नांकडे परतणे सोईस्कर ठरेल.
- (6) उत्तरपत्रिकेत एकदा नमूद केलेले उत्तर खोडता येणार नाही. नमूद केलेले उत्तर खोडून नव्याने उत्तर दिल्यास ते तपासले जाणार नाही.
- (7) प्रस्तुत परीक्षेच्या उत्तरपत्रिकांचे मूल्यांकन करताना उमेदवाराच्या उत्तरपत्रिकेतील योग्य उत्तरांनाच गुण दिले जातील. तसेच "उमेदवाराने वस्तुनिष्ठ बहुपर्यायी स्वरूपाच्या प्रश्नांची दिलेल्या चार उत्तरांपैकी सर्वात योग्य उत्तरेच उत्तरपत्रिकेत नमूद करावीत. अन्यथा त्यांच्या उत्तरपत्रिकेत सोडविलेल्या प्रत्येक चार चुकीच्या उत्तरांसाठी एका प्रश्नाचे गुण वजा करण्यात येतील".

ताकीद

ह्या प्रश्नपत्रिकेसाठी आयोगाने विहित केलेली वेळ संपेपर्यंत ही प्रश्नपुस्तिका आयोगाची मालमत्ता असून ती परीक्षाकक्षात उमेदवाराला परीक्षेसाठी वापरण्यास देण्यात येत आहे. ही वेळ संपेपर्यंत सदर प्रश्नपुस्तिकेची प्रत/प्रती, किंवा सदर प्रश्नपुस्तिकेतील काही आशय कोणत्याही स्वरूपात प्रत्यक्ष वा अप्रत्यक्षपणे कोणत्याही व्यक्तीस पुरविणे, तसेच प्रसिद्ध करणे हा गुन्हा असून अशी कृती करणाऱ्या व्यक्तीवर शासनाने जारी केलेल्या "परीक्षांमध्ये होणाऱ्या गैरप्रकारांना प्रतिबंध करण्याबाबतचा अधिनियम-82" यातील तरतुदीनुसार तसेच प्रचलित कायद्याच्या तरतुदीनुसार कारवाई करण्यात येईल व दोषी व्यक्ती कमाल एक वर्षांच्या कारावासाच्या आणि/किंवा रुपये एक हजार रकमेच्या दंडाच्या शिक्षेस पात्र होईल.

तसेच ह्या प्रश्नपत्रिकेसाठी विहित केलेली वेळ संपण्याआधी ही प्रश्नपुस्तिका अनधिकृतपणे बाळगणे हा सुद्धा गुन्हा असून तसे करणारी व्यक्ती आयोगाच्या कर्मचारीवृंदापैकी, तसेच परीक्षेच्या पर्यवेक्षकीयवृंदापैकी असली तरीही अशा व्यक्तीविरुद्ध उक्त अधिनियमानुसार कारवाई करण्यात येईल व दोषी व्यक्ती शिक्षेस पात्र होईल.

पुढील प्रश्नपुस्तिकेच्या अंतिम पृष्ठावर पहा

पर्यवेक्षकांच्या सूचनेविना हे सील उघडू नये

AO4

2

कच्च्या कामासाठी जागा / SPACE FOR ROUGH WORK

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A

3

1. 'वाचणान्याची रोजनिशी' या पुस्तकाचे लेखक :

- | | |
|------------------|-----------------------|
| (1) सतिश काळसेकर | (2) दिलीप प्रभावळकर |
| (3) दिलीप चित्रे | (4) व्यंकटेश माडगुळकर |

The book 'Vachnaryachi Rojnishi' is written by :

- | | |
|---------------------|--------------------------|
| (1) Satish Kalsekar | (2) Dilip Prabhavalkar |
| (3) Dilip Chitre | (4) Vyankatesh Madgulkar |

2. खालील सूची "A" व सूची "B" मधील जोड्या जुळवा.

- | (A) | (B) |
|--------------------|-------------------|
| (a) महाराष्ट्र दिन | (i) 27 फेब्रुवारी |
| (b) कृषि दिन | (ii) 01 जुलै |
| (c) रंगभूमी दिन | (iii) 01 मे |
| (d) मराठी दिन | (iv) 05 नोव्हेंबर |

पर्याय :

- | (a) | (b) | (c) | (d) |
|-------------------------|-----|-----|-----|
| (1) (i) (ii) (iii) (iv) | | | |
| (2) (iii) (ii) (iv) (i) | | | |
| (3) (ii) (iii) (i) (iv) | | | |
| (4) (iv) (i) (ii) (iii) | | | |

Match the list "A" with list "B"

- | (A) | (B) |
|---------------------|--------------------------------|
| (a) Maharashtra Day | (i) 27 th February |
| (b) Agriculture Day | (ii) 01 st July |
| (c) Theatre Day | (iii) 01 st May |
| (d) Marathi Day | (iv) 05 th November |

Codes :

- | (a) | (b) | (c) | (d) |
|-------------------------|-----|-----|-----|
| (1) (i) (ii) (iii) (iv) | | | |
| (2) (iii) (ii) (iv) (i) | | | |
| (3) (ii) (iii) (i) (iv) | | | |
| (4) (iv) (i) (ii) (iii) | | | |

कच्च्या कामासाठी जागा / SPACE FOR ROUGH WORK

P.T.O.

AO4

4

3. खालीलपैकी कुठला देश सार्कचा सदस्य नाही ?

- (1) पाकिस्तान (2) श्रीलंका (3) अफगानिस्तान (4) सिंगापूर

Which of the following countries is **not** a member of the 'SAARC' ?

- (1) Pakistan (2) Sri Lanka (3) Afghanistan (4) Singapore

4. जागतिक क्षयरोग दिन दरवर्षी _____ रोजी मानला जातो.

- (1) 8 मार्च (2) 7 एप्रिल (3) 24 मार्च (4) 25 एप्रिल

World TB day is observed on _____ every year.

- (1) 8th March (2) 7th April (3) 24th March (4) 25th April

5. खालील विधाने पहा.

- (a) 2011 चा साहित्य अकादमी युवा पुरस्कार ऐश्वर्या पाटेकर यांना मिळाला.
 (b) भारतीय भाषा परिषदेतर्फे देण्यात येणारा 'नवउर्जा अभिनंदन युवा पुरस्कार' भास्कर भोसले यांना प्राप्त झाला.
 (c) 2011 चा साहित्य अकादमी पुरस्कार डॉ. अनिल अवचट यांना प्राप्त झाला.

वरीलपैकी कोणते/ती विधान/ने बरोबर आहे/त ?

- (1) फक्त (a) (2) (a) आणि (b) (3) (b) आणि (c) (4) फक्त (b)

Consider the following statements :

- (a) Aishwarya Patekar received Sahitya Academy Youth Award 2011.
 (b) Bhaskar Bhosale received the Navurja Abhinandan Youth Award delivered by Bharthiya Bhasha Parishad.
 (c) Dr. Anil Avchat received Sahitya Academy Award 2011.

Which of the statements given above is/are **correct** ?

- (1) Only (a) (2) (a) and (b) (3) (b) and (c) (4) Only (b)

6. चीन व पाकिस्तान यांच्यात नुकतीच हवाई सराव मोहिम पार पडली त्या सरावाचे नाव काय ?

- (1) शाहीन (ईगल) - 2 (2) ईगल एक्स - 1
 (3) शाहीन - 3 (4) चिपाक - 2

China and Pakistan recently held a joint air - exercise. What was the name of this exercise ?

- (1) Shaheen (Eagle) - 2 (2) Eagle X - 1
 (3) Shaheen - 3 (4) Chipak - 2

कच्च्या कामासाठी जागा / SPACE FOR ROUGH WORK

A

5

7. 2013 चा रॉजर कप विजेता राफेल नादाल कोणत्या देशातील आहे ?
 (1) स्पेन (2) कॅनडा (3) यु.एस.ए. (4) जर्मनी
 Rafael Nadal, winner of the men's singles title in Rogers Cup 2013 belongs to which of the following countries ?
 (1) Spain (2) Canada (3) USA (4) Germany
-
8. ट्रायच्या (TRAI) मते 30 सप्टेंबर 2013 रोजी भारतातील मोबाईल फोन ग्राहकांची संख्या साधारणपणे _____ इतकी होती.
 (1) 87 कोटी (2) 75 कोटी (3) एक अब्ज (4) 95 कोटी
 On 30th September 2013 the approximate number of mobile phone subscribers in India according to TRAI was :
 (1) 87 crores (2) 75 crores (3) One billion (4) 95 crores
-
9. ताजिकिस्तान हा जागतिक व्यापारी संघटनेचा _____ सदस्य देश आहे.
 (1) एकशेएकोणसाठावा (2) एकशेपंचावन्नवा (3) एकशेपन्नासावा (4) एकशेछप्पन्नवा
 Tajikistan is the _____ member state of World Trade Organisation.
 (1) 159th (2) 155th (3) 150th (4) 156th
-
10. जीसॅट -14 हा भारताचा इस्रोने (आय.एस.आर.ओ.) तयार केलेला _____ भूस्थिर संचार उपग्रह आहे.
 (1) तेविसावा (2) अठरावा (3) पंधरावा (4) बावीसावा
 GSAT -14 is the _____ geostationary communication satellite of India built by ISRO.
 (1) 23rd (2) 18th (3) 15th (4) 22nd
-
11. खालीलपैकी कोणती/त्या जोडी/ड्या बरोबर आहे/त ?
 (a) गॅलिलिओ-युएसए (अमेरिकेची संयुक्त संस्थाने)
 (b) जी.पी.एस.-इयु (युरोपियन युनियन)
 (c) आय.आर.एन.एस.एस.-इंडिया
 (d) ग्लोनास-रशिया
 (1) (d) आणि (c) (2) (a) आणि (b) (3) (a) (4) (b)
 Which is/are the correct pair/s among the following ?
 (a) GALILEO - USA (United States of America)
 (b) GPS - EU (European Union)
 (c) IRNSS - India
 (d) GLONASS - Russia
 (1) (d) and (c) (2) (a) and (b) (3) (a) (4) (b)

कच्च्या कामासाठी जागा / SPACE FOR ROUGH WORK

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12. _____ हा जगातील सर्वाधिक ऑलिव्ह तेलाचे उत्पादन करणारा देश आहे.

- (1) स्पेन (2) इटली (3) ग्रीस (4) पोर्तुगाल

_____ is the largest producer of olive oil in the world.

- (1) Spain (2) Italy (3) Greece (4) Portugal

13. सूची "A" व सूची "B" मधील जोड्या जुळवा.

(A)

(रेल्वे प्रभाग)

- (a) मध्य रेल्वे
(b) पूर्व-रेल्वे
(c) दक्षिण-मध्य रेल्वे
(d) उत्तर-पूर्व रेल्वे

(B)

(मुख्यालय)

- (i) गोरखपूर
(ii) सिकंदराबाद
(iii) कोलकाता
(iv) मुंबई

पर्याय :

- | | | | | |
|-----|-------|-------|-------|-------|
| | (a) | (b) | (c) | (d) |
| (1) | (i) | (ii) | (iii) | (iv) |
| (2) | (iv) | (iii) | (ii) | (i) |
| (3) | (ii) | (iv) | (i) | (iii) |
| (4) | (iii) | (i) | (iv) | (ii) |

Match the list "A" with list "B".

(A)

(Railway Zone)

- (a) Central Railway
(b) Eastern Railway
(c) South - Central Railway
(d) North - Eastern Railway

(B)

(Head quarters)

- (i) Gorakhpur
(ii) Secunderabad
(iii) Kolkata
(iv) Mumbai

Codes :

- | | | | | |
|-----|-------|-------|-------|-------|
| | (a) | (b) | (c) | (d) |
| (1) | (i) | (ii) | (iii) | (iv) |
| (2) | (iv) | (iii) | (ii) | (i) |
| (3) | (ii) | (iv) | (i) | (iii) |
| (4) | (iii) | (i) | (iv) | (ii) |

कच्च्या कामासाठी जागा / SPACE FOR ROUGH WORK

A

7

14. खालील विधाने पहा.

(a) भारतात महालक्ष्मी (मुंबई), बंगळुरू, पुणे, दिल्ली, हैदराबाद, कोलकाता-येथे अश्वशर्यती आयोजित केल्या जातात.

(b) 1830 मध्ये पुणे येथे रेसकोर्सची स्थापना झाली.

वरीलपैकी कोणते/ती विधान/ने बरोबर आहे/त ?

(1) फक्त (a) (2) फक्त (b) (3) (a) आणि (b) (4) यापैकी नाही

Consider the following statements :

(a) Horse Races are organised in India at Mahalaxmi, Bangluru, Pune, Delhi, Hyderabad and Kolkata.

(b) The Race - course was established at Pune in 1830.

Which of the above statements is/are correct ?

(1) Only (a) (2) Only (b) (3) (a) and (b) (4) None of these

15. 'अँड माऊंटन्स एकोड' या पुस्तकाचे लेखक/लेखिका :

(1) खालिद हुसेनी (2) अमृता प्रितम

(3) सुधा मूर्ती (4) रामचंद्र गुहा

'And mountains echoed' is the book written by :

(1) Khalid Hosseini (2) Amruta Pritam

(3) Sudha Murthi (4) Ramchandra Guha

16. शिरपूर पॅटर्न (कृषि/सिंचन) चा शोध _____ यांनी लावला.

(1) शरद जोशी (2) सुरेश खानापूरकर

(3) राजू शेटी (4) मेधा पाटकर

Shirpur pattern (agriculture/irrigation) was invented by :

(1) Sharad Joshi (2) Suresh Khanapurkar

(3) Raju Shetty (4) Medha Patkar

17. खालील विधाने पहा :

(a) 1954 मध्ये फिल्मफेअर पुरस्कारांची सुरुवात झाली.

(b) 1937 मध्ये आर्देशीर इराणींनी पहिला भारतीय रंगीत चित्रपट प्रदर्शित केला.

वरीलपैकी कोणते/ती विधान/ने बरोबर आहे/त ?

(1) फक्त (a) (2) फक्त (b) (3) (a) आणि (b) (4) यापैकी नाही

Consider the following statements :

(a) The Filmfare Awards began in 1954.

(b) The first Indian coloured film was released by Avdesheer Irani in 1937.

Which of the above statements is/are correct ?

(1) Only (a) (2) Only (b) (3) (a) and (b) (4) None of these

कच्च्या कामासाठी जागा / SPACE FOR ROUGH WORK

P.T.O.

AO4

8

18. सूची "A" व सूची "B" मधील जोड्या जुळवा.

(A)	(B)
(a) जागतिक पर्यावरण दिन	(i) 07 एप्रिल
(b) जागतिक आरोग्य दिन	(ii) 12 ऑगस्ट
(c) आंतरराष्ट्रीय युवा दिन	(iii) 16 ऑक्टोबर
(d) जागतिक अन्न दिन	(iv) 05 जून

पर्याय :

(a)	(b)	(c)	(d)
(1) (iv)	(ii)	(i)	(iii)
(2) (iii)	(ii)	(i)	(iv)
(3) (iv)	(i)	(ii)	(iii)
(4) (i)	(ii)	(iv)	(iii)

Match the list "A" with list "B".

(A)	(B)
(a) World Environment Day	(i) 07 th April
(b) World Health Day	(ii) 12 th August
(c) International Youth Day	(iii) 16 th October
(d) World Food Day	(iv) 05 th June

Codes :

(a)	(b)	(c)	(d)
(1) (iv)	(ii)	(i)	(iii)
(2) (iii)	(ii)	(i)	(iv)
(3) (iv)	(i)	(ii)	(iii)
(4) (i)	(ii)	(iv)	(iii)

कच्च्या कामासाठी जागा / SPACE FOR ROUGH WORK :

A

9

19. खालील विधाने पहा :

- (a) आकाशवाणी (AIR) ची सद्यस्थितीत भारतात 223 रेडिओ केंद्रे आहेत.
 (b) भारतात दूरदर्शन सेवेची सुरुवात 1976 पासून झाली.

वरीलपैकी कोणते/ती विधान/ने बरोबर आहे/त ?

- (1) फक्त (a) (2) फक्त (b) (3) (a) आणि (b) (4) यापैकी नाही

Consider the following Statements :

- (a) Akashvani (AIR) has, at present 223 radio stations in India.
 (b) The television service (Doordarshan) in India began in 1976.

Which of the statements given above is/are correct ?

- (1) Only (a) (2) Only (b) (3) (a) and (b) (4) None of these

20. चिरंजीवी योजना :

- (a) आई आणि बाळाला दीर्घायुष्य देण्यासाठी प्रयत्न करणारा कार्यक्रम आहे.
 (b) मुख्यतः दारिद्र्य रेषेखालील कुटुंबांसाठी आहे.
 (c) संस्थात्मक (दवाखान्यातील) प्रसूतीचा लाभ अधिक लोकांपर्यंत पोहचविण्यासाठी आहे.
 (d) सार्वजनिक खाजगी भागीदारीचे प्रतिमान आहे.
 (1) (a) हे योग्य उत्तर आहे.
 (2) (b) हे योग्य उत्तर आहे.
 (3) (c) हे योग्य उत्तर आहे.
 (4) (a) ते (d) हे सर्व पर्याय बरोबर आहेत.

Chiranjeevi Yojana is :

- (a) a programme to give long life to mother and child.
 (b) basically meant for below poverty line families.
 (c) for improving access to institutional delivery.
 (d) a public private partnership model.
 (1) (a) is the correct answer.
 (2) (b) is the correct answer.
 (3) (c) is the correct answer.
 (4) All the above options (a) to (d) are correct.

कच्च्या कामासाठी जागा / SPACE FOR ROUGH WORK

P.T.O.

AO4

10

21. माहिती अधिकार अधिनियम 2005 नुसार जन माहिती अधिकाऱ्याने मागितलेली माहिती कोणत्याही योग्य कारणाशिवाय देण्यास कसूर केली असल्यास त्याला प्रत्येक दिवसाला _____ रूपये इतकी शास्ती लादली जाऊ शकते.

- (1) रू. 25000/- (2) रू. 250/- (3) रू. 25/- (4) वरीलपैकी कोणतेही नाही

As per the Right to Information Act, 2005 Rs. _____ per day penalty is liable to be imposed on Public Information Officer, who fails without any reason to furnish the information.

- (1) Rs. 25000/- (2) Rs. 250/- (3) Rs. 25/- (4) None of the above

22. माहितीचा अधिकार अधिनियम, 2005 च्या कलम 2 (ह) नुसार खालीलपैकी कोणाचा शासकीय प्राधिकरणाच्या व्याख्ये मध्ये समावेश होतो ?

- (1) राज्य शासनाकडून भरीव आर्थिक मदत होणाऱ्या सहकारी संस्था.
 (2) अशासकीय संस्था कि ज्यांना नेमून दिलेले किंवा कायदेशीर तरतूद केलेले अर्थसहाय्य मिळते.
 (3) सरकारी अनुदान मिळणाऱ्या शैक्षणिक संस्था
 (4) वरील सर्व

Which of the following is a public authority under section 2(h) of the Right to Information Act, 2005 ?

- (1) The Co-operative societies substantially financed by the State Govt.
 (2) NGO's receiving allocations or provisions of funds.
 (3) The Educational Institution receiving grant-in-aid from the State.
 (4) All of the above

कच्च्या कामासाठी जागा / SPACE FOR ROUGH WORK

A

11

23. खालील वाक्ये वाचा.

- (a) माहिती अधिकार अधिनियम, 2005 चा उद्देश शासनामध्ये खुलेपणा व पारदर्शकता आणण्याचा आहे.
 (b) मतदारांना निवडणूकीतील उमेदवारांची पार्श्वभूमी माहिती होण्याचा अधिकार आहे.
 (1) वाक्य (a) बरोबर आहे तर वाक्य (b) चूक आहे.
 (2) वाक्य (a) चूक आहे तर वाक्य (b) बरोबर आहे.
 (3) दोन्ही वाक्ये बरोबर आहेत.
 (4) वरील एकही नाही.

Read the following statements.

- (a) The object of the Right to Information Act, 2005 is to bring openness and transparency in governance.
 (b) The Voters' have the right to know the antecedents of the contestants.
 (1) Statement (a) is correct while statement (b) is wrong.
 (2) Statement (a) is wrong while statement (b) is correct.
 (3) Both the statements are correct.
 (4) None of the above.

24. माहिती अधिकार अधिनियम 2005 नुसार राज्य मुख्य माहिती आयुक्तांचा पदावधी (एकूण) _____ वर्षांपेक्षा अधिक असणार नाही.

- (1) 3 वर्षे (2) 5 वर्षे (3) वयाच्या 67 वर्षांपेक्षा (4) वरीलपैकी कोणतेही नाही

As per the Right to Information Act, 2005 the term of office of the State Chief Information Commission shall **not** be beyond _____.

- (1) 3 years (2) 5 years (3) 67 years of age (4) None of the above

25. माहितीचा अधिकार कोणाला आहे ?

- (1) सर्व व्यक्तींना (2) सर्व नागरिकांना
 (3) फक्त एक वरीलपैकी (4) वरील (1) व (2) दोन्ही

Who have the Right to Information ?

- (1) All persons (2) All Citizens
 (3) Only one of above (4) Both (1) and (2) above

कच्च्या कामासाठी जागा / SPACE FOR ROUGH WORK

P.T.O.

AO4

12

26. Read the following statements and choose the correct option :

- (a) A mass of at least 50 gms of Ig G₁ is required in colostrum fed to a 45 kg calf to obtain adequate passive blood immunoglobulin concentrations.
 (b) The concentrations of immunoglobulin in colostrum fall dramatically following parturition.

Answer Options :

- (1) Statement (a) is true but statement (b) is false
 (2) Statement (a) is false but statement (b) is true
 (3) Both the statements (a) and (b) are true
 (4) Both the statements (a) and (b) are false

27. Match Electrolyte/ion imbalance with clinical symptoms/states :

- | | |
|----------------------|--------------------------|
| (a) Hyponatremia | (i) Alkalosis |
| (b) Hyperkalaemia | (ii) Acidosis |
| (c) Hypochloraemia | (iii) Marked dehydration |
| (d) Bicarbonate loss | (iv) Bradycardia |

Codes :

- | | (a) | (b) | (c) | (d) |
|-----|-------|------|-------|-------|
| (1) | (iii) | (ii) | (iv) | (i) |
| (2) | (i) | (iv) | (iii) | (ii) |
| (3) | (iii) | (iv) | (i) | (ii) |
| (4) | (ii) | (iv) | (i) | (iii) |

28. Match the Vitamins with their therapeutic indications :

- | | |
|----------------------------|------------------------------|
| (a) Vitamin K | (i) Xerophthalmia |
| (b) Vitamin A | (ii) Rickets |
| (c) Vitamin D ₃ | (iii) Sweet clover poisoning |
| (d) Vitamin B ₁ | (iv) Bracken fern poisoning |

Codes :

- | | (a) | (b) | (c) | (d) |
|-----|-------|------|------|-------|
| (1) | (i) | (iv) | (ii) | (iii) |
| (2) | (iii) | (i) | (iv) | (ii) |
| (3) | (iii) | (ii) | (i) | (iv) |
| (4) | (iii) | (i) | (ii) | (iv) |

कच्च्या कामासाठी जागा / SPACE FOR ROUGH WORK

A

13

29. Match the disease with diagnostic tests :

- | | |
|-------------------------------|--------------------|
| (a) Leptospirosis | (i) Coggin's test |
| (b) Equine infectious anaemia | (ii) MAT |
| (c) Glanders | (iii) Mallein test |
| (d) Anthrax | (iv) Ascoli test |

Codes :

- | | (a) | (b) | (c) | (d) |
|-----|-------|-------|-------|------|
| (1) | (ii) | (iii) | (i) | (iv) |
| (2) | (ii) | (i) | (iii) | (iv) |
| (3) | (iii) | (i) | (ii) | (iv) |
| (4) | (i) | (iii) | (iv) | (ii) |

30. Identify the disease on the basis of following statements :

- (a) It is an acute, febrile disease of cattle, sheep and human beings.
 (b) Characterised in lambs and calves by clinical signs of hepatitis with high mortality rate while abortions in adult sheep and cattle and influenza - like signs in humans.
 (c) Transmission of infection occurs chiefly through mosquitoes.
 (d) This is a viral disease caused by phlebovirus.
- | | |
|------------------------|-----------------------|
| (1) Wesselbron disease | (2) Equine influenza |
| (3) Blue tongue | (4) Rift valley fever |

31. Which one of the following statements about Tuberculosis is **incorrect** ?

- (1) Bovine tuberculosis is caused by Mycobacterium bovis characterized by progressive development of tubercles.
 (2) Wild fauna and birds act as a source of infection to cattle.
 (3) Sheep followed by goats and pigs are highly susceptible to bovine tuberculosis infection.
 (4) In horses it is characterised by Osteomyelitis of cervical vertebrae.

32. Consider the following statements :

- (a) Connell suture is an inversion suture pattern used in hollow visceral organs.
 (b) The suture passes through serous, muscular and mucosal layer and the suture line is parallel to the line of incision in connell suture.

Now state whether :

- (1) Neither of the statements is correct.
 (2) Both the statements are correct and the second is the correct procedure of the first.
 (3) The first statement is correct not the second.
 (4) Both the statements are correct but the second is not the correct procedure of the first.

कच्चा कामासाठी जागा / SPACE FOR ROUGH WORK

P.T.O.

33. Arrange the stages of general anaesthesia observed in barbiturate anaesthetic agents in progressive order. (Use correct codes)
- Stage of surgical anaesthesia.
 - Stage of analgesia or voluntary movement.
 - Stage of involuntary movement.
 - Stage of medullary paralysis.

Codes :

	Stage - I	Stage - II	Stage - III	Stage - IV
(1)	(a)	(b)	(c)	(d)
(2)	(b)	(c)	(a)	(d)
(3)	(d)	(a)	(c)	(b)
(4)	(c)	(d)	(a)	(b)

34. Consider the following statements :

- Severely affected cattle and buffaloes with acidic/alkaline indigestion may require rumenotomy.
- Acidic indigestion in ruminants occurs due to over feeding of protein and urea whereas alkaline indigestion occurs due to over feeding of carbohydrates.

Now state whether :

- Neither of the statements is correct.
- The first statement is correct not the second.
- Both the statements are correct and second is the explanation of the first.
- Both the statements are correct and second is not the explanation of the first.

35. Match the following terms with the state of the patient and nervous tissue depression. (Use correct codes)

List - 1 (Terms)

List - 2 (State)

- | | |
|---------------------|--|
| (a) Hypnosis | (i) Is a state of deep sleep accompanied by analgesia |
| (b) Tranquilization | (ii) Is an artificially induced sleep and results from moderate depression of CNS. |
| (c) Narcosis | (iii) Is a state of mild degree central depression when the patient is awake but calm. |
| (d) Sedation | (iv) Is a state of behavioural change in which patient is relaxed but unconcerned of his surroundings. |

Codes :

	(a)	(b)	(c)	(d)
(1)	(i)	(iv)	(iii)	(ii)
(2)	(iv)	(iii)	(i)	(ii)
(3)	(iii)	(i)	(iv)	(ii)
(4)	(ii)	(iv)	(i)	(iii)

कच्चा कामासाठी जागा / SPACE FOR ROUGH WORK

A

15

36. Match the terminology used for hernia with its contents. (Use correct codes)

Hernia	Contents
(a) Epiplocele	(i) Intestine
(b) Enterocele	(ii) Uterus
(c) Vesicocele	(iii) Omentum
(d) Hysterocele	(iv) Urinary bladder

Codes :

	(a)	(b)	(c)	(d)
(1)	(i)	(iv)	(iii)	(ii)
(2)	(iv)	(iii)	(i)	(ii)
(3)	(i)	(iii)	(iv)	(ii)
(4)	(iii)	(i)	(iv)	(ii)

37. Indicate which of the following is present in radiographic developing solution ?

(a) Sodium thiosulphate	(b) Sodium Carbonate
(c) Salt of aluminium or alum	(d) Acetic acid
(1) (a) and (c)	(2) (d)
(3) (b)	(4) None of the above

38. For the ideal qualities of sutures, which is **not** correct ?

(a) Cause minimum tissue reaction	(b) More capillary in action
(c) Be knotable	(d) Have sufficient functional strength
(1) (b)	(2) (d)
(3) (c)	(4) (a)

39. Consider the following steps associated with Bovine Embryo Transfer Technology and arrange them in correct chronological order.

(a) Artificial insemination	(b) Superovulation
(c) Transfer of embryos	(d) Recovery of embryos

Answer options :

(1) (b), (a), (d), (c)	(2) (a), (b), (d), (c)	(3) (b), (a), (c), (d)	(4) (a), (b), (c), (d)
------------------------	------------------------	------------------------	------------------------

कच्चा कामासाठी जागा / SPACE FOR ROUGH WORK

P.T.O.

40. Indicate which of the following is **not** the obstetrical term related with fetal dystocia.
 (a) Presentation (b) Position (c) Prevention (d) Posture

Answer options :

- (1) (a) and (b) (2) (c) only (3) (d) only (4) (b) and (c)

41. Indicate which of the following statements is **incorrect** with respect to synchronization of estrous cycle in bovine.

- (a) It is used to bring a group of females in estrous at predetermined time with reasonable accuracy.
 (b) It cannot be used in cycling animals.
 (c) It reduces the time required for detection of estrous.

Answer options :

- (1) (a) and (c) (2) (b) and (c) (3) (b) only (4) (c) only

42. Name the abnormal condition found in farm animals described below.

- (a) It is sterile condition and characterized by fetal death and failure of abortion.
 (b) Placental fluids are resorbed and fetus along with its membranes get dehydrated.
 (c) Uterus tightly wrapped around the fetus and corpus luteum persists on the ovary.
 (d) It is suspected only when gestation period is prolonged.

Answer options :

- (1) Fetal anasarca (2) Fetal mummification
 (3) Superfetation (4) Fetal maceration

43. For producing good quality of frozen semen from cow bulls, following parameters are observed critically at Frozen Semen laboratories.

Match these parameters with their respective minimum acceptable values.

(Use correct codes)

List - 1	List - 2
Parameters	Minimum acceptable values
(a) Initial Progressive motility	(i) 500 million/ml
(b) Mass motility	(ii) 50%
(c) Sperm Concentration	(iii) 3
(d) Post thaw progressive motility	(iv) 70%

Codes :

- | | (a) | (b) | (c) | (d) |
|-----|------|-------|-------|------|
| (1) | (iv) | (i) | (iii) | (ii) |
| (2) | (ii) | (iii) | (i) | (iv) |
| (3) | (ii) | (i) | (iii) | (iv) |
| (4) | (iv) | (iii) | (i) | (ii) |

कच्चा कामासाठी जागा / SPACE FOR ROUGH WORK

A

17

44. Select the correct statement with respect to testicular degeneration in male animals.
- It occurs due to increased intra-testicular temperature, toxins, endocrine disturbances and infection.
 - Semen volume is usually affected.
 - Sperm concentration is reduced and sperm abnormalities are increased.
 - In more severe cases permanent loss of seminiferous tubules occurs.

Answer options :

- | | |
|----------------------|----------------------|
| (1) (a), (c) and (d) | (2) (b), (c) and (d) |
| (3) (a), (b) and (d) | (4) All of these |

45. Match the hormones with their principal functions in female reproduction.

(Use correct codes)

List - 1 (Hormones)

List - 2 (Principal functions)

- | | |
|-------------------------|-------------------------------|
| (a) Progesterone | (i) Sexual behaviour |
| (b) Melatonin | (ii) Ovulation |
| (c) Estrogen | (iii) Seasonal breeding |
| (d) Luteinizing hormone | (iv) Maintenance of pregnancy |

Codes :

- | | | | | |
|-----|------------|------------|------------|------------|
| | (a) | (b) | (c) | (d) |
| (1) | (iii) | (ii) | (iv) | (i) |
| (2) | (iv) | (iii) | (i) | (ii) |
| (3) | (ii) | (iv) | (iii) | (i) |
| (4) | (iv) | (i) | (iii) | (ii) |

46. Turkey egg kidney and button ulcers in colon are the characteristic lesions of :

- | | |
|----------------------|-------------------------|
| (1) Swine erysipelas | (2) Swine influenza |
| (3) Swine fever | (4) Vesicular exanthema |

47. Accumulation of blood in the pericardial sac with the blood clot completely surrounding the heart is :

- | | |
|-----------------------|---------------------------------|
| (1) Cardiac tamponade | (2) Hemothrox |
| (3) Pneumothrox | (4) Haemorrhages on pericardium |

कच्चा कामासाठी जागा / SPACE FOR ROUGH WORK

P.T.O.

48. Match the description of parasitic stages (List - 1) in the peripheral blood smears of dog with the etiological agents (List - 2).

List - 1	List - 2
(a) Cigar shaped in WBC	(i) <i>Dirofilaria spp</i>
(b) Intercellular blade/leaf shaped structures	(ii) <i>Hepatozoon canis</i>
(c) Pear shaped paired bodies in RBCs	(iii) <i>Babesia spp</i>
(d) Thread like larvae present intercellularly	(iv) <i>Trypanosoma evansi</i>

Codes :

	(a)	(b)	(c)	(d)
(1)	(iv)	(iii)	(i)	(ii)
(2)	(iii)	(iv)	(ii)	(i)
(3)	(i)	(iv)	(iii)	(ii)
(4)	(iv)	(i)	(iii)	(ii)

49. Match the scientific names of Helminths (List - 1) with description of eggs (List -2) encountered in freshly voided faeces. Species of host to which the faecal sample belongs is stated in the bracket

List - 1	List - 2
(a) <i>Schistosoma spp</i>	(i) Oval thick shelled eggs with albuminous projections (Pig)
(b) <i>Paramphistomum spp</i>	(ii) Roughly triangular eggs with pyriform apparatus (Sheep)
(c) <i>Ascaris spp</i>	(iii) Spindle shaped thin shelled eggs with terminal spine (Goat)
(d) <i>Moniezia spp</i>	(iv) Oval operculated whitish eggs (Cattle)

Codes :

	(a)	(b)	(c)	(d)
(1)	(iii)	(iv)	(i)	(ii)
(2)	(iii)	(iv)	(ii)	(i)
(3)	(ii)	(iv)	(i)	(iii)
(4)	(i)	(ii)	(iii)	(iv)

50. In which of the following conditions pathogenic organisms multiply and persist in the blood stream producing systemic disease ?

(1) Septicaemia	(2) Bacteraemia
(3) Pyaemia	(4) Toxaemia

कच्चा कामासाठी जागा / SPACE FOR ROUGH WORK

A

19

51. Match the scientists with their research area (use correct codes)

List I (Scientists)	List II (Research areas)
(a) Jenner	(i) Bacterial vaccine
(b) Pasteur	(ii) Variolation
(c) Salmon	(iii) Toxoid of <i>C. tetani</i>
(d) Van Behring	(iv) Fowl cholera

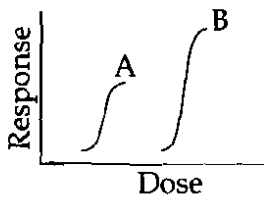
Codes :

	(a)	(b)	(c)	(d)
(1)	(i)	(ii)	(iii)	(iv)
(2)	(iii)	(iv)	(i)	(ii)
(3)	(ii)	(iv)	(i)	(iii)
(4)	(iv)	(iii)	(ii)	(i)

52. Consider the following statements :

- (a) In ruminants, pigs and horses, the chorionic epithelium is in direct contact with the uterine epithelium that prevents the transplacental passage of immunoglobulins.
- (b) The newborn are entirely dependant on antibodies received through the colostrum.
Now state whether :
 - (1) Both the statements are correct and the second is the correct explanation of the first.
 - (2) Neither of the statements is correct.
 - (3) Both the statements are correct, but the second is not the correct explanation of the first.
 - (4) The first statement is correct, but not the second.

53. Observe the dose response curves given below of drug 'A' and drug 'B' with similar pharmacodynamics



Now state whether :

- (1) Drug A is more potent but less efficacious than drug B
- (2) Drug B is more potent and more efficacious than drug A
- (3) Drug A is less potent but more efficacious than drug B
- (4) Drug B is more potent but less efficacious than drug A

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P.T.O.

54. Match the clinical indications given in list 2 with drugs given in list 1

List I : Drugs	List II : Clinical Indications
(a) Pimobendan	(i) Autoimmune diseases
(b) Potassium bromide	(ii) Epilepsy
(c) Tacrolimus	(iii) Dilated cardiomyopathy
(d) Domperidone	(iv) Vomiting

Codes :

	(a)	(b)	(c)	(d)
(1)	(iv)	(i)	(ii)	(iii)
(2)	(iii)	(i)	(ii)	(iv)
(3)	(ii)	(i)	(iv)	(iii)
(4)	(iii)	(ii)	(i)	(iv)

55. Name the anaesthetic described below :

- (a) It is an intravenous anaesthetic used for sedation, induction and maintenance of anaesthesia.
- (b) It decreases the rate of GABA dissociation from its receptors.
- (c) It is available as aqueous emulsion.
- (d) It is also indicated for status epilepticus.

Answer options :

- | | |
|-------------------|----------------------|
| (1) Pentobarbital | (2) Propofol |
| (3) Ketamine | (4) Chloral hydrate. |

56. Consider the following statements :

- (a) Fenbendazole and Albendazole have greater anthelmintic potency than Thiabendazole.
- (b) The dissolution rate, passage along gastro-intestinal tract and absorption of Albendazole and Fenbendazole into systemic circulation are markedly slower than those observed for Thiabendazole and this results in extended residence times for active metabolites of benzimidazole methyl carbamates.

Now state whether :

- (1) Both the statements are correct and second is the correct explanation of the first.
- (2) Neither of the statements is correct.
- (3) Both the statements are correct but second is not correct explanation of the first.
- (4) The first statement is correct, not the second.

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A

21

A

57. Which of the following drugs does/do **not** need metabolic activation for producing the effect ?

- (a) Enalapril (b) Phenacetin (c) Phenobarbital (d) Procaine

Answer options :

- (1) (a) and (b) (2) (c) and (d)
(3) All (a), (b), (c) and (d) (4) Only (c)

58. Arrange the processes involved in the normal fermentation of milk in a sequence :

- (a) Souring, Neutralization, Germicidal, Putrefaction.
(b) Neutralization, Souring, Germicidal, Putrefaction.
(c) Germicidal, Souring, Neutralization Putrefaction
(d) Putrefaction, Souring, Germicidal, Neutrilation.

Answer options :

- (1) (d) (2) (a) (3) (b) (4) (c)

59. Premises approved by and registered by the controlling authority in which animals are slaughtered and dressed for human consumption is termed as :

- (1) Meat parlours (2) Canning plants
(3) Abattoirs (4) Aquaria

60. The four statements given below are related to milk fat. State which option is the most correct.

- (a) Negatively correlated with production
(b) Variation is around 10%
(c) Influenced by stage of lactation
(d) Present in emulsion state

Answer options :

- (1) (a) and (d) (2) (b) and (c)
(3) All the above (4) (a), (b) and (c)

कच्चा कामासाठी जागा / SPACE FOR ROUGH WORK

P.T.O.

AO4

22

61. The human cutaneous leishmaniasis (Delhi boil) occurring in North India, mostly in urban areas is caused by

- (a) *leishmania donovani* (b) *leishmania chagasi*
 (c) *leishmania tropica* (d) *leishmania infantum*

Codes :

- (1) (a) and (b) (2) (b) only (3) (c) only (4) (c) and (d)

62. Match the year in which central pollution control board monitors environmental pollution as per various acts enacted by the Central Govt..

List A (Acts)	List B (Years)
(a) The Environmental Control Act	(i) 1974
(b) The Water Act	(ii) 1977
(c) The Air Act	(iii) 1986
(d) The Water Cess Act	(iv) 1981

Codes :

- | | (a) | (b) | (c) | (d) |
|-----|-------|-------|-------|-------|
| (1) | (iii) | (i) | (iv) | (ii) |
| (2) | (ii) | (iii) | (i) | (iv) |
| (3) | (i) | (iv) | (iii) | (ii) |
| (4) | (iv) | (ii) | (i) | (iii) |

63. Which of the following is the unit to measure absorbed dose of radioactive substances per gram of tissue ?

- (1) Roentgen (2) Curie (3) NTU (4) RAD

64. The region immediately above the surface of earth with thickness of 10 -20 km. is

- (1) Troposphere (2) Mesosphere
 (3) Ionosphere (4) Stratosphere

कच्चा कामासाठी जागा / SPACE FOR ROUGH WORK

A

23

65. Match the causative agents responsible for the development of following Zoonotic diseases in human beings.

List - I

(Human diseases)

- (a) Undulant Fever
 (b) Woolsortev's disease
 (c) Hydrophobia
 (d) Weil's disease

List -II

(Causative agents)

- (i) lyssa virus
 (ii) *Leptospira Pomona*
 (iii) *B. melitensis*
 (iv) *B. anthracis*.

Codes :

- | | (a) | (b) | (c) | (d) |
|-----|-------|-------|------|-------|
| (1) | (ii) | (iv) | (i) | (iii) |
| (2) | (iv) | (iii) | (ii) | (i) |
| (3) | (iii) | (iv) | (i) | (ii) |
| (4) | (ii) | (iii) | (iv) | (i) |

66. The cornual processes are extensions of :

- | | |
|-------------------|------------------------|
| (1) Temporal bone | (2) Occipital bone |
| (3) Frontal bone | (4) Interparietal bone |

67. The adenohypophysis of pituitary gland is further divisible into :

- (1) Pars nervosa, pars tuberalis and pars intermedia.
 (2) Pars adinalis, pars tubosa and pars intermedia
 (3) Pars basalis, pars distalis and pars intermedia
 (4) Pars distalis, pars tuberalis and pars intermedia

68. The rounded blind end of cecum in ruminants commonly lies at the right side of the _____.

- | | |
|------------------------|---------------------------------|
| (1) Xiphoid cartilage | (2) Pelvic inlet |
| (3) Left side of rumen | (4) Toward the floor of abdomen |

कच्चा कामासाठी जागा / SPACE FOR ROUGH WORK

P.T.O.

AO4

24

69. The functional blood supply to the liver is given by _____.

- (1) Hepatic artery (2) Hepatic vein
(3) Portal vein (4) Coeliac artery
-

70. The band like thickening of pia mater, along the ventral median septum of spinal cord is called as :

- (1) Ligumentum deuticulatum (2) Choroid plexus
(3) Linea splendens (4) Tela choroidea
-

71. Normal blood neutrophils percent count in ungulate animals is :

- (1) 45 - 55% (2) 25 - 30% (3) 60 - 65% (4) 2 - 5%
-

72. Placenta type in cattle is :

- (1) Diffuse (2) Cotyledonary (3) Zonary (4) Discoid
-

73. Consider the following statements :

- (a) $PGF_2\alpha$ is synthesized and secreted by corpus luteum.
(b) $PGF_2\alpha$ causes luteolysis

Now state whether :

- (1) Both the statements (a) and (b) are correct.
(2) Statement (a) is correct but statement (b) is wrong.
(3) Statement (a) is wrong but statement (b) is correct
(4) Both the statements (a) and (b) are wrong.
-

74. The normal semen output in Ram is :

- (1) 0.7 - 2.0 ml (2) 2 - 6 ml
(3) 0.02 - 0.12 ml (4) 2 - 10 ml
-

75. The hormone responsible for the signs of estrous in cow is :

- (1) Progesterone (2) Prolactin
(3) Estradiol - 17β (4) Luteinizing hormone
-

कच्चा कामासाठी जागा / SPACE FOR ROUGH WORK

A

25

76. Identify the stage of adoption category, where equal number of adopters are classified in technology acceptance

- (1) Innovators and laggards (2) Early majority and late majority
(3) Early adopters and early majority (4) Early adopters and laggards

77. Steps in Extension Teaching are in short, called as :

- (1) AIETA (2) AIDCAS (3) KPOC (4) AIDACS

78. The idea which is perceived as new by an individual can be :

- (1) Information (2) Innovation (3) Perception (4) Interaction

79. The core of Experience devised by one of the following experts in explaining the inter-relationship of the various types of audio-visual materials :

- (1) Kapoor Dale (2) Edgar Dale (3) Mosher Dale (4) Smith Dale

80. Which one of the following stages of adoption stimulates the technology acceptance of adoption ?

- (1) Awareness (2) Interest (3) Evaluation (4) Trial

81. Classify the method Demonstration according to use form and function in extension teaching methods

- (1) Individual contact (2) Group contact
(3) Mass contact (4) All the above

82. (i) Sheep have a small muzzle and upper lip split.

(ii) This helps them to nibble small blades of grass on pasture.

Now state whether :

(a) Both the statements are correct and the second is the correct explanation of the first.

(b) Neither of the statements is correct

(c) Both the statements are correct but the second is not the correct explanation of the first

(d) The first statement is correct not the second

- (1) (a) (2) (b) (3) (c) (4) (d)

कच्चा कामासाठी जागा / SPACE FOR ROUGH WORK

P.T.O.

83. Match the incubation periods of eggs of different species.

- | | |
|------------------|----------|
| (a) Turkey | (i) 35 |
| (b) Duck | (ii) 21 |
| (c) Chicken | (iii) 28 |
| (d) Muscovy Duck | (iv) 28 |

Answer Options :

- | | (a) | (b) | (c) | (d) |
|-----|-------|-------|------|-------|
| (1) | (iii) | (iv) | (ii) | (i) |
| (2) | (iv) | (iii) | (i) | (ii) |
| (3) | (ii) | (i) | (iv) | (iii) |
| (4) | (iii) | (i) | (ii) | (iv) |

84. Match the Breeds with respect to their utilities :

- | | |
|----------------------|--------------------|
| (a) Leghorn | (i) Meat Purpose |
| (b) Cornish | (ii) Dual Purpose |
| (c) Rhode Island Red | (iii) Game Purpose |
| (d) Aseel | (iv) Egg Purpose |

Code :

- | | (a) | (b) | (c) | (d) |
|-----|------|-------|-------|-------|
| (1) | (iv) | (ii) | (iii) | (i) |
| (2) | (iv) | (i) | (ii) | (iii) |
| (3) | (i) | (iv) | (iii) | (ii) |
| (4) | (ii) | (iii) | (i) | (iv) |

85. Consider the following statements :

- (a) The heavier the bird, the higher is the percentage of blood and feathers
 (b) When both the sexes are of the same weight, the percent loss from blood and feathers is greater in males.
- (1) Both the statements are correct
 (2) Both the statements are incorrect
 (3) Statement (a) is correct and (b) is incorrect
 (4) Statement (b) is correct and (a) is incorrect

कच्च्या कामासाठी जागा / SPACE FOR ROUGH WORK

A

27

86. Match sheep breeds with their utilities :

List - A (Utility)	List - B (Breeds of Sheep)
(a) Mutton purpose	(i) Rampur Bushair
(b) Wool purpose	(ii) Nellore
(c) Mutton and Wool purpose	(iii) Baluchi
(d) Milk purpose	(iv) Lohi

Codes :

(a)	(b)	(c)	(d)
(1) (i)	(ii)	(iii)	(iv)
(2) (ii)	(i)	(iv)	(iii)
(3) (iii)	(iv)	(i)	(ii)
(4) (iv)	(i)	(iii)	(ii)

87. Indicate which of the following chemicals are used for disbudding the calves :

(a) KOH	(b) CaOH	(c) Na ₂ OH	(d) Na ₂ CO ₃
---------	----------	------------------------	-------------------------------------

Answer options :

(1) (b) and (c)	(2) (a) and (b)	(3) (a) and (c)	(4) (a) and (d)
-----------------	-----------------	-----------------	-----------------

88. Consider the following statements :

- (a) Increasing light hours in growers will delay onset of egg production.
 (b) Increasing light hours in layers will decrease egg production.
 (1) Both the statements are correct.
 (2) (a) is correct but not (b).
 (3) Both the statements are incorrect.
 (4) (b) is correct but not (a).

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P.T.O.

89. What is not true about inbreeding ?

- (a) It increases homozygosity
- (b) Used to produce distinct families within a breed
- (c) Used to develop inbred line
- (d) Frequency of desirable recessive genes is increased
- (e) Increases the prepotency

Answer Options :

- (1) (b) (2) (c) (3) (d) (4) (e)

90. The offspring produced by crossing of a male horse (stallion) and female donkey (jennet) is known as :

- (1) Mule (2) Hinny (3) Jatsamin (4) Jatsa

91. Crossing over takes place between homologous chromosomes in :

- (1) Mitosis (2) First meiotic division
(3) Second meiotic division (4) All the above

92. Is the mating system when the matings occur among the unrelated individuals of the same breed :

- (1) Cross breeding (2) In crossing
(3) Out crossing (4) Line breeding

93. Product of heritability and selection differential gives :

- (1) Selection Intensity (2) Selection Pressure
(3) Response to Selection (4) Selection Limit

94. The value of an individual determined by the mean value of its progeny is called :

- (1) Breeding value (2) Genotypic value
(3) Phenotypic value (4) Dominant value

कच्च्या कामासाठी जागा / SPACE FOR ROUGH WORK

A

29

95. Which of the following statements is/are characteristic of very good silage ?
- pH 4.2 - 4.5, ammoniacal nitrogen 10 - 15% of total nitrogen.
 - pH 4 - 5, ammoniacal nitrogen 20% of total nitrogen.
 - pH 3.5 - 4.2, ammoniacal nitrogen less than 10% of total nitrogen.
 - Butyric acid more than 0.2%, ammoniacal nitrogen more than 20% of total nitrogen.

Options :

- (a) and (c) are correct
- only (c) is correct
- (c) and (d) are correct
- (a), (b), (c), (d) are correct

96. Match the pairs of (A) and (B) :

(A)	(B)
(a) Albrecht Thaer	(i) Recognise protein, fat and carbohydrate as essential nutrients
(b) Willium Prout	(ii) Hay equivalent
(c) Wolff's standard	(iii) DCP and TDN system
(d) Morrisons feeding standard	(iv) Based on digestible protein, digestible fat and digestible carbohydrate

Codes :

- | | (a) | (b) | (c) | (d) |
|-----|-------|-------|-------|-------|
| (1) | (ii) | (i) | (iv) | (iii) |
| (2) | (iii) | (iv) | (i) | (ii) |
| (3) | (i) | (iii) | (ii) | (iv) |
| (4) | (iv) | (ii) | (iii) | (i) |

कच्चा कामासाठी जागा / SPACE FOR ROUGH WORK

P.T.O.

97. Conditions where to supply by pass protein in the diet of ruminants.
- (a) High yielding milch animal yielding more than 15 kg milk/day.
 - (b) Rapidly growing calves @ 1 kg/day.
 - (c) Animal thriving only on poor quality roughages.
 - (d) To meet out the protein requirement from microbial protein synthesis in rumen.

Options :

- (1) Only (a) is correct
- (2) (b) and (d) are correct
- (3) Only (c) is correct
- (4) All are correct

98. Flieg Index of silage :

- (a) Determine quality of silage.
- (b) It makes no reference to ammonia produced by proteolytic species.
- (c) It takes into account butyric acid content of silage.
- (d) It is positively correlated with the feeding value of silage.

Options :

- (1) (a) and (c) are correct
- (2) (a), (b) and (c) are correct
- (3) Only (a) is correct
- (4) All statements are correct

99. Match the pairs of (A) and (B) :

(A)	(B)
(a) Bacteria number of rumen content	(i) Neocallimastix
(b) pH of rumen liquor	(ii) 10^6
(c) Prominant rumen fungi	(iii) $10^9 - 10^{10}$
(d) Protozoa count	(iv) 5.5 - 6.5

Codes :

- | | (a) | (b) | (c) | (d) |
|-----|-------|-------|------|-------|
| (1) | (iii) | (iv) | (i) | (ii) |
| (2) | (i) | (iii) | (ii) | (iv) |
| (3) | (ii) | (iv) | (i) | (iii) |
| (4) | (iv) | (iii) | (ii) | (i) |

कच्चा कामासाठी जागा / SPACE FOR ROUGH WORK

A

31

100. Weaknesses of TDN system of energy evaluation :

- (a) It measures energy in energy limits.
- (b) It measures all the losses from the body.
- (c) It over estimates energy value of forages in relation to concentrates.
- (d) The factor 2.25 is used to equalise the energy content of fat.

Options :

- (1) (b) and (d) are correct
- (2) (a) and (c) are correct
- (3) (c) and (d) are correct
- (4) All are correct

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सूचना — (पृष्ठ 1 वरून पुढे....)

- (8) प्रश्नपुस्तिकेमध्ये विहित केलेल्या विशिष्ट जागीच कच्चे काम (रफ वर्क) करावे. प्रश्नपुस्तिकेव्यतिरिक्त उत्तरपत्रिकेवर वा इतर कागदावर कच्चे काम केल्यास ते कॉपी करण्याच्या उद्देशाने केले आहे, असे मानले जाईल व त्यानुसार उमेदवारावर शासनाने जारी केलेल्या “परीक्षामध्ये होणाऱ्या गैरप्रकारांना प्रतिबंध करण्याबाबतचे अधिनियम-82” यातील तरतुदीनुसार कारवाई करण्यात येईल व दोषी व्यक्ती कमाल एक वर्षाच्या कारावासाच्या आणि/किंवा रुपये एक हजार रकमेच्या दंडाच्या शिक्षेस पात्र होईल.
- (9) सदर प्रश्नपत्रिकेसाठी आयोगाने विहित केलेली वेळ संपल्यानंतर उमेदवाराला ही प्रश्नपुस्तिका स्वतःबरोबर परीक्षाकक्षाबाहेर घेऊन जाण्यास परवानगी आहे. मात्र परीक्षा कक्षाबाहेर जाण्यापूर्वी उमेदवाराने आपल्या उत्तरपत्रिकेचा भाग-1 समवेक्षकाकडे न विसरता परत करणे आवश्यक आहे.

नमुना प्रश्न

प्रश्न क्र. 201. सतीची चाल नष्ट करण्यासाठी कोणी मूलतः प्रयत्न केले?

- | | |
|---------------------------|-------------------------|
| (1) स्वामी दयानंद सरस्वती | (2) ईश्वरचंद विद्यासागर |
| (3) राजा राममोहन रॉय | (4) गोपाळकृष्ण गोखले |

ह्या प्रश्नाचे योग्य उत्तर “(3) राजा राममोहन रॉय” असे आहे. त्यामुळे या प्रश्नाचे उत्तर “(3)” होईल, यास्तव खालीलप्रमाणे प्रश्न क्र. 201 समोरील उत्तर-क्रमांक “(3)” हे वर्तुळ पूर्णपणे छायांकित करून दाखविणे आवश्यक आहे.

प्र. क्र. 201. (1) (2) (3) (4)

अशा पद्धतीने प्रस्तुत प्रश्नपुस्तिकेतील प्रत्येक प्रश्नाचा तुमचा उत्तरक्रमांक हा तुम्हाला स्वतंत्ररीत्या पुरविलेल्या उत्तरपत्रिकेवरील त्या त्या प्रश्नक्रमांकासमोरील संबंधित वर्तुळ पूर्णपणे छायांकित करून दाखवावा. ह्याकरिता फक्त काळ्या शाईचे बॉलपेन वापरावे, पेन्सिल वा शाईचे पेन वापरू नये.

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