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# CGPSC SO

**Previous Year Paper  
(Zoology)  
14 Feb, 2016**



## Chhattisgarh Public Service Commission

### Notations :

1. Options shown in **green** color and with **✓** icon are correct.
2. Options shown in **red** color and with **✗** icon are incorrect.

**Question Paper Name:** Zoology 14th Feb 2016 Actual

**Subject Name:** Zoology

**Duration:** 180

Zoology

Group Maximum Duration : 0  
Group Minimum Duration : 180  
Revisit allowed for view? : No  
Revisit allowed for edit? : No

General Knowledge on Chhattisgarh

Mandatory or Optional: Mandatory

**Question Number : 1 Question Id : 9593761 Question Type : MCQ**

**Correct : 2 Wrong : 1**

Dandor word related with \_\_\_\_\_.

**Options :**

1. ✓ Sarguja
2. ✗ Bastar
3. ✗ Rajnandgaon
4. ✗ Khairagarh
5. ✗ None of the other option

**Question Number : 1 Question Id : 9593761 Question Type : MCQ**

**Correct : 2 Wrong : 1**

दाण्डोर शब्द संबंधित है-

**Options :**

1. ✓ सरगुजा
2. ✗ बस्तर
3. ✗ राजनान्दगांव

4. ✘ खैरागढ़

5. ✘ अन्य विकल्पों में से कोई नहीं

Question Number : 2 Question Id : 9593762 Question Type : MCQ

Correct : 2 Wrong : 1

Where is Deorani-Jethani temple in Chattisgarh situated?

Options :

1. ✘ Ratnapur

2. ✘ Kanker

3. ✘ Dantewada

4. ✓ Talagaon

5. ✘ None of the other option

Question Number : 2 Question Id : 9593762 Question Type : MCQ

Correct : 2 Wrong : 1

देवरानी जेठानी मंदिर छत्तीसगढ़ में कहां विद्मान है?

Options :

1. ✘ रत्नपुर

2. ✘ कांकेर

3. ✘ दंतेवाड़ा

4. ✓ तालागांव

5. ✘ अन्य विकल्पों में से कोई नहीं

Question Number : 3 Question Id : 9593763 Question Type : MCQ

Correct : 2 Wrong : 1

In which place Ratnakar Jha related as a freedom fighter?

Options :

1. ✘ Raipur

2. ✘ Rajnandgaon

3. ✘ Bilaspur

4. ✘ Raigarh

5. ✓ None of the other option

Question Number : 3 Question Id : 9593763 Question Type : MCQ

Correct : 2 Wrong : 1

रत्नाकर झा किस स्थान के स्वतंत्रता संग्राम सेनानी थे?

Options :

1. ✘ रायपुर
2. ✘ राजनान्दगांव
3. ✘ बिलासपुर
4. ✘ रायगढ़
5. ✓ अन्य विकल्पों में से कोई नहीं

Question Number : 4 Question Id : 9593764 Question Type : MCQ

Correct : 2 Wrong : 1

In Surat Congress 1907, who participated as a member of Chattisgarh?

Options :

1. ✓ Pt. Sundarlal Sharma
2. ✘ Pt. Ravishankar Shukla
3. ✘ Pt. Lochan Prasad Pandey
4. ✘ Shri. Narayan Rao Meghawale
5. ✘ None of the other option

Question Number : 4 Question Id : 9593764 Question Type : MCQ

Correct : 2 Wrong : 1

सूरत कांग्रेस 1907 में छत्तीसगढ़ का प्रतिनिधित्व सदस्य के रूप में किसने किया था?

Options :

1. ✓ पं. सुन्दरलाल शर्मा
2. ✘ पं. रविशंकर शुक्ला
3. ✘ पं. लोचन प्रसाद पाण्डे
4. ✘ श्री. नारायणराव मेघावाले
5. ✘ अन्य विकल्पों में से कोई नहीं

Question Number : 5 Question Id : 9593765 Question Type : MCQ

Correct : 2 Wrong : 1

Which of the following pair (tribal revolt in Chhattisgarh and leader) is correctly matched?

Options :

1. ✘ Bhopalpatnam Revolt 1795 - Kora Majhi
2. ✘ Lingagiri Revolt 1856-57 - Dalganjan Singh
3. ✘ Koi Revolt 1859 - Jugga Dorla
4. ✓ Muriya Revolt 1876 - Jhada Sirha
5. ✘ Bastar Revolt 1910 - Dinanath

Question Number : 5 Question Id : 9593765 Question Type : MCQ

Correct : 2 Wrong : 1

निम्नलिखित में से कौन सी जोड़ी (छत्तीसगढ़ में जनजाती विद्रोह एवं नेता) सुमेलित है?

Options :

1. ✗ भोपालपटनम् विद्रोह 1795 - कोरा मांझी
2. ✗ लिंगगिरी विद्रोह 1856-57 - दलगंजन सिंह
3. ✗ कोड़ विद्रोह 1859 - जुग्गा डोरला
4. ✓ मुरिया विद्रोह 1876 - झाड़ा सिरहा
5. ✗ बस्तर विद्रोह 1910 - दीनानाथ

Question Number : 6 Question Id : 9593766 Question Type : MCQ

Correct : 2 Wrong : 1

Which of the following pair (European Traveller in Chhattisgarh and Maratha Ruler) is correctly matched?

Options :

1. ✗ Forester - Bimbaji Bhonsale
2. ✗ Colebrooke - Parsooji Bhonsale
3. ✓ Captain Blunt - Vyanko Ji Bhonsale
4. ✗ Charles grant - Appa Saheb Bhonsale
5. ✗ Crawfurd - Purshoiji Bhonsale

Question Number : 6 Question Id : 9593766 Question Type : MCQ

Correct : 2 Wrong : 1

निम्नलिखित में से कौन सी जोड़ी (छत्तीसगढ़ में युरोपियान यात्री एवं मराठा शासक) सुमेलित है?

Options :

1. ✗ फारेस्टर - बिम्बाजी भोंसले
2. ✗ कोलब्रूक - परसों जी भोंसले
3. ✓ केप्टन ट्लंट - ट्यॉकोजी भोंसले
4. ✗ चालर्स ग्रांट - अप्पासाहब भोंसले
5. ✗ क्राफर्ड - पुरषोजी भोंसले

Question Number : 7 Question Id : 9593767 Question Type : MCQ

Correct : 2 Wrong : 1

Which of the following pair (kalchuri temple, Math and king) is not correctly matched?

Options :

1. ✘ Prithvivedeshwar Temple, Tumman - Prithvi Dev I
2. ✘ Vishnu Temple, Janjgir - Jajalla Dev I
3. ✓ Shiv Temple, Pali - Prithivi Dev II
4. ✘ Laxman Temple, Kharod - Ratna Dev -II
5. ✘ Duhadhi Math, Raipur - Jai Singh Dev

Question Number : 7 Question Id : 9593767 Question Type : MCQ

Correct : 2 Wrong : 1

निम्नलिखित में से कौन सी जोड़ी (कलचुरी मंदिर, मठ एवं राजा) सुमेलित नहीं है?

Options :

1. ✘ पृथ्वीदेवेश्वर मंदिर, तुम्माण - पृथ्वीदेव प्रथम
2. ✘ विष्णु मंदिर, जांजगीर - जाजल्लदेव प्रथम
3. ✓ शिव मंदिर, पाली - पृथ्वीदेव द्वितीय
4. ✘ लक्ष्मण मंदिर, खरौद - रत्नदेव द्वितीय
5. ✘ दुधाधारीमठ, रायपुर - जयसिंह देव

Question Number : 8 Question Id : 9593768 Question Type : MCQ

Correct : 2 Wrong : 1

The highest peak in Chhattisgarh State is \_\_\_\_\_.

Options :

1. ✘ Main pat
2. ✘ Jarang pat
3. ✘ Pendra pat
4. ✓ Samari pat
5. ✘ None of the other option

Question Number : 8 Question Id : 9593768 Question Type : MCQ

Correct : 2 Wrong : 1

छत्तीसगढ़ प्रदेश में सबसे ऊँचा पाट है-

Options :

1. ✘ मैनपाट
2. ✘ जारंगपाट

3. ✗ पेन्ड्रापाट

4. ✓ सामरीपाट

5. ✗ अन्य विकल्पों में से कोई नहीं

Question Number : 9 Question Id : 9593769 Question Type : MCQ

Correct : 2 Wrong : 1

In which of the following hemispheres Chhattisgarh State is situated?

Options :

1. ✓ Northern and Eastern

2. ✗ Southern and Eastern

3. ✗ Northern and Western

4. ✗ Southern and Western

5. ✗ None of the other option

Question Number : 9 Question Id : 9593769 Question Type : MCQ

Correct : 2 Wrong : 1

छत्तीसगढ़ राज्य निम्नलिखित में से किस गोलार्ध में स्थित है?

Options :

1. ✓ उत्तरी और पुर्वी

2. ✗ दक्षिणी और पुर्वी

3. ✗ उत्तरी और पश्चिमी

4. ✗ दक्षिणी और पश्चिमी

5. ✗ अन्य विकल्पों में से कोई नहीं

Question Number : 10 Question Id : 95937610 Question Type : MCQ

Correct : 2 Wrong : 1

Which is the largest in geographical region of Chhattisgarh?

Options :

1. ✗ Sarguja Besin

2. ✗ Jashpur Samari Pat region

3. ✓ Mahanadi Besin

4. ✗ Dandakaranya region

5. ✗ None of the other option

Question Number : 10 Question Id : 95937610 Question Type : MCQ

Correct : 2 Wrong : 1

छत्तीसगढ़ के भौगोलिक क्षेत्र में सबसे बड़ा कौन है?

Options :

1. ❌ सरगुजा बेसिन
2. ❌ जशपुर सामरी पाट प्रदेश
3. ✓ महानदी बेसिन
4. ❌ दन्डाकारण्य
5. ❌ अन्य विकल्पों में से कोई नहीं

Question Number : 11 Question Id : 95937611 Question Type : MCQ

Correct : 2 Wrong : 1

The cave of Kutumbasar is in:

Options :

1. ❌ Janjgir
2. ❌ Raigarh
3. ✓ Bastar
4. ❌ Mahasamund
5. ❌ None of the other option

Question Number : 11 Question Id : 95937611 Question Type : MCQ

Correct : 2 Wrong : 1

कुटुम्बसर की गुफा है-

Options :

1. ❌ जांजगीर
2. ❌ रायगढ़
3. ✓ बस्तर
4. ❌ महासमुद्र
5. ❌ अन्य विकल्पों में से कोई नहीं

Question Number : 12 Question Id : 95937612 Question Type : MCQ

Correct : 2 Wrong : 1

Which of the following district is biggest in area?

Options :

1. ❌ Raipur
2. ✓ Kondagaon
3. ❌ Bemetara
4. ❌ Balod
5. ❌ None of the other option

Question Number : 12 Question Id : 95937612 Question Type : MCQ

Correct : 2 Wrong : 1

निम्नलिखित जिलों में कौन क्षेत्रफल में सबसे बड़ा है?

Options :

1. ✗ रायपुर
2. ✓ कोडागांव
3. ✗ बेमेतरा
4. ✗ बालोद
5. ✗ अन्य विकल्पों में से कोई नहीं

Question Number : 13 Question Id : 95937613 Question Type : MCQ

Correct : 2 Wrong : 1

Which of the following districts has the lowest percentage share of scheduled cast according to census of 2011?

Options :

1. ✗ Kanker
2. ✗ Dantewada
3. ✗ Narayanpur
4. ✓ Bastar
5. ✗ None of the other option

Question Number : 13 Question Id : 95937613 Question Type : MCQ

Correct : 2 Wrong : 1

वर्ष 2011 की जनगणना के अनुसार निम्नलिखित में से किस जिले में अनुसूचित जाति का प्रतिशत हिस्सा सबसे कम है?

Options :

1. ✗ कांकेर
2. ✗ दन्तेवाड़ा
3. ✗ नारायणपुर
4. ✓ बस्तर
5. ✗ अन्य विकल्पों में से कोई नहीं

Question Number : 14 Question Id : 95937614 Question Type : MCQ

Correct : 2 Wrong : 1

Which district has lowest literacy in Chhattisgarh State according to the census 2011?

Options :

1. ✗ Sukma

2. ✘ Narayanpur
3. ✓ Bijapur
4. ✘ Dantewada
5. ✘ None of the other option

Question Number : 14 Question Id : 95937614 Question Type : MCQ

Correct : 2 Wrong : 1

वर्ष 2011 की जनगणना के अनुसार छत्तीसगढ़ राज्य में सबसे कम साक्षरता वाला जिला कौन सा है?

Options :

1. ✘ सुकमा
2. ✘ नारायणपुर
3. ✓ बीजापुर
4. ✘ दन्तेवाड़ा
5. ✘ अन्य विकल्पों में से कोई नहीं

Question Number : 15 Question Id : 95937615 Question Type : MCQ

Correct : 2 Wrong : 1

Which of the following award has not been received the Government of Chhattisgarh for Computerization of public distribution system?

Options :

1. ✘ National E. Governance Award
2. ✘ E. India Award
3. ✘ C. S. I. E. Governance Award
4. ✓ C. F. I. E. Governance Award
5. ✘ None of the other option

Question Number : 15 Question Id : 95937615 Question Type : MCQ

Correct : 2 Wrong : 1

सार्वजनिक वितरण प्रणाली के कम्प्यूटीकरण हेतु छत्तीसगढ़ सरकार को निम्न में से कौन सा आवार्ड प्राप्त नहीं हुआ है?

Options :

1. ✘ नेशनल ई. गवर्नेंस आवार्ड
2. ✘ ई. इंडिया आवार्ड
3. ✘ सी. एस आई. ई. गवर्नेंस आवार्ड
4. ✓ सी. एफ. आई. ई. गवर्नेंस आवार्ड

5. ✘ अन्य विकल्पों में से कोई नहीं

Question Number : 16 Question Id : 95937616 Question Type : MCQ

Correct : 2 Wrong : 1

What is the Central Government's contribution in grants to small and marginal farmer's lender 'Shakambhari' scheme in Chhattisgarh?

Options :

1. ✘ 60 percent
2. ✘ 50 percent
3. ✓ 35 percent
4. ✘ 25 percent
5. ✘ None of the other option

Question Number : 16 Question Id : 95937616 Question Type : MCQ

Correct : 2 Wrong : 1

छत्तीसगढ़ में 'शाकम्भरी' योजना के अन्तर्गत छोटे एवं सीमांत कृषकों के अनुदान में केन्द्र सरकार का योगदान क्या है?

Options :

1. ✘ 60 प्रतिशत
2. ✘ 50 प्रतिशत
3. ✓ 35 प्रतिशत
4. ✘ 25 प्रतिशत
5. ✘ अन्य विकल्पों में से कोई नहीं

Question Number : 17 Question Id : 95937617 Question Type : MCQ

Correct : 2 Wrong : 1

In Which year Chhattisgarh State Forest Development Corporation came into existence?

Options :

1. ✘ May 2003
2. ✘ June 2002
3. ✓ May 2001
4. ✘ June 2001
5. ✘ None of the other option

Question Number : 17 Question Id : 95937617 Question Type : MCQ

Correct : 2 Wrong : 1

छत्तीसगढ़ राज्य वन विकास निगम किस वर्ष अस्तित्व में आया?

Options :

1. ✘ मई 2003
2. ✘ जुन 2002
3. ✓ मई 2001
4. ✘ जुन 2001
5. ✘ अन्य विकल्पों में से कोई नहीं

Question Number : 18 Question Id : 95937618 Question Type : MCQ

Correct : 2 Wrong : 1

Which is not covered under the “National Agricultural Development Scheme” in Chhattisgarh State?

Options :

1. ✘ Orchard Programme
2. ✘ Fruit Diversification
3. ✓ Unconserved Cultivation
4. ✘ Fruit Exhibition Programme
5. ✘ None of the other option

Question Number : 18 Question Id : 95937618 Question Type : MCQ

Correct : 2 Wrong : 1

छत्तीसगढ़ राज्य में ‘राष्ट्रीय कृषि विकास योजना’ के अन्तर्गत किसे शामिल नहीं किया गया है?

Options :

1. ✘ फल - वाटिका कार्यक्रम
2. ✘ फल - विविधीकरण
3. ✓ असंरक्षित खेती
4. ✘ फल प्रदर्शनी कार्यक्रम
5. ✘ अन्य विकल्पों में से कोई नहीं

Question Number : 19 Question Id : 95937619 Question Type : MCQ

Correct : 2 Wrong : 1

In which project division ‘Surpagandha’ medicinal plant is planted in Chhattisgarh State?

Options :

1. ✓ Barnavapara-Kawardha
2. ✘ Antagarh-Konta
3. ✘ Sarguja
4. ✘ Panabaras

5. ❌ None of the other option

Question Number : 19 Question Id : 95937619 Question Type : MCQ

Correct : 2 Wrong : 1

निम्न में से किस परियोजना मण्डल में 'सर्पगंधा' नामक वनोषधि का रोपण छत्तीसगढ़ में किया गया है?

Options :

1. ✓ बारनवापार-कवर्धा
2. ❌ अन्तागढ़-कोटा
3. ❌ सरगुजा
4. ❌ पांनाबरस
5. ❌ अन्य विकल्पों में से कोई नहीं

Question Number : 20 Question Id : 95937620 Question Type : MCQ

Correct : 2 Wrong : 1

Which is the growth rate of Net State Domestic Product of Chhattisgarh at constant prices of 2004-05 in the year 2013-14?

Options :

1. ❌ 5.86 percent
2. ❌ 4.99 percent
3. ❌ 4.31 percent
4. ✓ 2.96 percent
5. ❌ None of the other option

Question Number : 20 Question Id : 95937620 Question Type : MCQ

Correct : 2 Wrong : 1

वर्ष 2013-14 में 2004-05 की स्थिर कीमतों पर छत्तीसगढ़ राज्य के विशुद्ध घरेलू उत्पाद की आर्थिक वृद्धि दर क्या है?

Options :

1. ❌ 5.86 प्रतिशत
2. ❌ 4.99 प्रतिशत
3. ❌ 4.31 प्रतिशत
4. ✓ 2.96 प्रतिशत
5. ❌ अन्य विकल्पों में से कोई नहीं

Question Number : 21 Question Id : 95937621 Question Type : MCQ

Correct : 2 Wrong : 1

What is correct about tendered vote & ballot paper?

- i. It is same as any other ballot paper used at the polling centre.
- ii. It is issued to blind voters.
- iii. It is dropped in the ballot box.
- iv. It is the last ballot paper issued to the polling centre.
- v. It is casting of vote through electronic voting machine.
- vi. It is given to the Presiding Officer in his hand.
- vii. It is the technical terminology of postal ballot paper.
- viii. In general conditions no need to count it.

Options :

- 1. ✘ i, iii, iv, viii
- 2. ✘ ii, iii, iv, vi
- 3. ✓ i, iv, vi, viii
- 4. ✘ iv, v, vii, viii
- 5. ✘ None of the other option

Question Number : 21 Question Id : 95937621 Question Type : MCQ

Correct : 2 Wrong : 1

निविदित मत और मतपत्र के विषय में सही क्या है?

- i. यह मतदान केन्द्र में उपयोग किए जाने वाले मतपत्रों के समान होता है।
- ii. यह अंधे मतदाताओं को दिया जाता है।
- iii. यह मतपेटी में डाला जाता है।
- iv. यह मतदान केन्द्र को प्रदत्त अन्तिम मतपत्र होता है।
- v. यह इलेक्ट्रॉनिक वोटिंग मशीन से मतदान करना है।
- vi. यह पीठासीन अधिकारी के हाथ में दिया जाता है।
- vii. यह डाक मतपत्र की तकनीकी शब्दावली है।
- viii. सामान्य परिस्थितियों में इनकी गणना करना आवश्यक नहीं है।

Options :

- 1. ✘ i, iii, iv, viii
- 2. ✘ ii, iii, iv, vi
- 3. ✓ i, iv, vi, viii
- 4. ✘ iv, v, vii, viii
- 5. ✘ अन्य विकल्पों में से कोई नहीं

Question Number : 22 Question Id : 95937622 Question Type : MCQ

Correct : 2 Wrong : 1

In which act 'tenure holder', 'Government lessee', 'land revenue' and 'rent' is defined?

Options :

1. ❌ Chhattisgarh Land Revenue Code 1956
2. ✅ Chhattisgarh Land Revenue Code 1959
3. ❌ Chhattisgarh Land Revenue Code 2000
4. ❌ Chhattisgarh Land Revenue Code 2004
5. ❌ None of the other option

Question Number : 22 Question Id : 95937622 Question Type : MCQ

Correct : 2 Wrong : 1

किस अधिनियम में 'भुधारी', 'सरकारी पट्टेदार', 'भूराजस्व' और 'लगान' को परिभाषित किया गया है?

Options :

1. ❌ छत्तीसगढ़ भूराजस्व संहिता 1956
2. ✅ छत्तीसगढ़ भूराजस्व संहिता 1959
3. ❌ छत्तीसगढ़ भूराजस्व संहिता 2000
4. ❌ छत्तीसगढ़ भूराजस्व संहिता 2004
5. ❌ अन्य विकल्पों में से कोई नहीं

Question Number : 23 Question Id : 95937623 Question Type : MCQ

Correct : 2 Wrong : 1

What is correct of the following?

- (i) 20% of Sarpanch who are ex-officio member of Janpad Panchayat can be member of standing committee of Janpad Panchayat.
- (ii) 20% of Sarpanch who are ex-officio member of Janpad Panchayat cannot be the member of standing committee of Janpad Panchayat
- (iii) 20% of Sarpanch who are ex-officio member of Janpad Panchayat, their tenure is one year.
- (iv) 20% of Sarpanch who are ex-officio members of Janpad Panchayat, their tenure is five years.
- (v) 20% of Sarpanch who are ex-officio members of Janpad Panchayat can be given remembrance.
- (vi) 20% of Sarpanch who are ex-officio members of Janpad Panchayat cannot be given remembrance.
- (vii) 20% of Sarpanch who are ex-officio members of Janpad Panchayat are selected by the President of Janpad Panchayat.
- (viii) 20% of Sarpanch who are ex-officio members of Janpad Panchayat are selected by lottery.

Options :

1. ❌ i, iii, v, vii
2. ❌ ii, iv, vi, viii

3. ✘ i, iv, v, viii

4. ✓ ii, iii, vi, viii

5. ✘ i, iii, vi, vii

Question Number : 23 Question Id : 95937623 Question Type : MCQ

Correct : 2 Wrong : 1

निम्न में से सही क्या है?

- i. 20% सरपंच जो जनपद पंचायत के पदेन सदस्य होते हैं, जनपद पंचायत की स्थायी समितियों के सदस्य हो सकते हैं।
- ii. 20% सरपंच जो जनपद पंचायत के पदेन सदस्य होते हैं, जनपद पंचायत की स्थायी समितियों के पदेन सदस्य नहीं हो सकते।
- iii. 20% सरपंच जो जनपद पंचायत के पदेन सदस्य होते हैं, का कार्यकाल एक वर्ष होता है।
- iv. 20% सरपंच जो जनपद पंचायत के पदेन सदस्य होते हैं, का कार्यकाल 5 वर्ष होता है।
- v. 20% सरपंच जो जनपद पंचायत के पदेन सदस्य होते हैं, को पुनर्सदस्यता दी जा सकती है।
- vi. 20% सरपंच जो जनपद पंचायत के पदेन सदस्य होते हैं, को पुनर्सदस्यता नहीं दी जा सकती।
- vii. 20% सरपंच जो जनपद पंचायत के पदेन सदस्य होते हैं, चयन जनपद पंचायत के अध्यक्ष के द्वारा की जाती है।
- viii. 20% सरपंच जो जनपद पंचायत के पदेन सदस्य होते हैं, का चयन लॉट द्वारा किया जाता है।

Options :

1. ✘ i, iii, v, vii

2. ✘ ii, iv, vi, viii

3. ✘ i, iv, v, viii

4. ✓ ii, iii, vi, viii

5. ✘ i, iii, vi, vii

Question Number : 24 Question Id : 95937624 Question Type : MCQ

Correct : 2 Wrong : 1

In Janpad Panchayat or Zila Panchayat except the elected member, who can be a member?

Options :

1. ✘ Nominated member

2. ✓ Ex-officio member

3. ❌ Member appointed by Governor
4. ❌ Minority members
5. ❌ None of the other option

Question Number : 24 Question Id : 95937624 Question Type : MCQ

Correct : 2 Wrong : 1

जनपद पंचायत अथवा जिला पंचायत में निर्वाचित सदस्यों के अलावा, कौन सदस्य होता है?

Options :

1. ❌ नामांकित सदस्य
2. ✓ पदेन सदस्य
3. ❌ राज्यपाल द्वारा नियुक्त सदस्य
4. ❌ अल्पसंख्यक सदस्य
5. ❌ अन्य विकल्पों में से कोई नहीं

Question Number : 25 Question Id : 95937625 Question Type : MCQ

Correct : 2 Wrong : 1

Who said, "If our independence is to reflect the people's voice, greater the powers to Panchayats, the better for the people."?

Options :

1. ✓ Pt. Jawahar Lal Nehru
2. ❌ Lal Bahadur Shastri
3. ❌ Mahatma Gandhi
4. ❌ Deendayal Upadhyay
5. ❌ Atal Bihari Bajpeyi

Question Number : 25 Question Id : 95937625 Question Type : MCQ

Correct : 2 Wrong : 1

किसने कहा "यदि हमारी स्वाधीनता को जनता की आवाज की प्रतिध्वनि बनाना है तो पंचायतों को जितनी अधिक शक्ति मिले, जनता के लिए उतना ही अच्छा है"?

Options :

1. ✓ पं जवाहार लाल नेहरू
2. ❌ लाल बहादुर शास्त्री
3. ❌ महात्मा गांधी
4. ❌ दीनदयाल उपाध्याय

5. ✘ अटल बिहारी बाजपेयी

Question Number : 26 Question Id : 95937626 Question Type : MCQ

Correct : 2 Wrong : 1

Which articles of Constitution talks of the formation of Gram Panchayat in the State?

Options :

1. ✘ Article 53
2. ✘ Article 51
3. ✘ Article 19
4. ✓ Article 40
5. ✘ None of the other option

Question Number : 26 Question Id : 95937626 Question Type : MCQ

Correct : 2 Wrong : 1

संविधान के किस अनुच्छेद में राज्य को ग्राम पंचायतों की स्थापना का निर्देश दिया गया है?

Options :

1. ✘ अनुच्छेद 53
2. ✘ अनुच्छेद 51
3. ✘ अनुच्छेद 19
4. ✓ अनुच्छेद 40
5. ✘ अन्य विकल्पों में से कोई नहीं

Question Number : 27 Question Id : 95937627 Question Type : MCQ

Correct : 2 Wrong : 1

Which district is industrially most developed in Chhattisgarh?

Options :

1. ✘ Raigarh
2. ✓ Durg
3. ✘ Raipur
4. ✘ Bilaspur
5. ✘ None of the other option

Question Number : 27 Question Id : 95937627 Question Type : MCQ

Correct : 2 Wrong : 1

छत्तीसगढ़ में औद्योगिक इण्टि से सर्वाधिक विकसित जिला कौन सा है?

Options :

1. ✘ रायगढ़
2. ✓ दुर्ग
3. ✘ रायपुर
4. ✘ बिलासपुर
5. ✘ अन्य विकल्पों में से कोई नहीं

Question Number : 28 Question Id : 95937628 Question Type : MCQ

Correct : 2 Wrong : 1

In which district of Chhattisgarh Catechu Industry is situated?

Options :

1. ✘ Bastar
2. ✓ Sarguja
3. ✘ Dantewada
4. ✘ Jashpur
5. ✘ None of the other option

Question Number : 28 Question Id : 95937628 Question Type : MCQ

Correct : 2 Wrong : 1

छत्तीसगढ़ में कत्था उद्योग किस जिले में स्थित है?

Options :

1. ✘ बस्तर
2. ✓ सरगुजा
3. ✘ दन्तेवाडा
4. ✘ जशपुर
5. ✘ अन्य विकल्पों में से कोई नहीं

Question Number : 29 Question Id : 95937629 Question Type : MCQ

Correct : 2 Wrong : 1

In dolomite production in 2011-12, What is the rank of Chhattisgarh State in the country?

Options :

1. ✘ Second
2. ✓ First
3. ✘ Fourth
4. ✘ Third
5. ✘ None of the other option

Question Number : 29 Question Id : 95937629 Question Type : MCQ

Correct : 2 Wrong : 1

वर्ष 2011-12 में डोलोमाइट के उत्पादन में छत्तीसगढ़ राज्य का देश में कौन सा स्थान है?

Options :

1. ✗ द्वितीय
2. ✓ प्रथम
3. ✗ चतुर्थ
4. ✗ तृतीय
5. ✗ अन्य विकल्पों में से कोई नहीं

Question Number : 30 Question Id : 95937630 Question Type : MCQ

Correct : 2 Wrong : 1

In which district the Sikasar Project is situated?

Options :

1. ✗ Mahasamund
2. ✗ Dhamtari
3. ✗ Kanker
4. ✗ Balod
5. ✓ None of the other option

Question Number : 30 Question Id : 95937630 Question Type : MCQ

Correct : 2 Wrong : 1

सिकासार परियोजना किस जिले में स्थित है?

Options :

1. ✗ महासमुद्र
2. ✗ धमतरी
3. ✗ कांकेर
4. ✗ बालोद
5. ✓ अन्य विकल्पों में से कोई नहीं

Question Number : 31 Question Id : 95937631 Question Type : MCQ

Correct : 2 Wrong : 1

In which district there is no coal deposit?

Options :

1. ✓ Bastar
2. ✗ Korba
3. ✗ Koria



4. ✘ Raigarh  
5. ✘ None of the other option

Question Number : 31 Question Id : 95937631 Question Type : MCQ

Correct : 2 Wrong : 1

किस ज़िले में कोयले का निक्षेप नहीं है?

Options :

1. ✓ बस्तर  
2. ✘ कोरबा  
3. ✘ कोरिया  
4. ✘ रायगढ़  
5. ✘ अन्य विकल्पों में से कोई नहीं

Question Number : 32 Question Id : 95937632 Question Type : MCQ

Correct : 2 Wrong : 1

Which one of the following is not a non-conventional Source of energy?

Options :

1. ✓ Nuclear energy  
2. ✘ Solar energy  
3. ✘ Wind energy  
4. ✘ Tidal energy  
5. ✘ None of the other option

Question Number : 32 Question Id : 95937632 Question Type : MCQ

Correct : 2 Wrong : 1

निम्नलिखित में कौन-सा गैरपरम्परागत ऊर्जा स्रोत नहीं है?

Options :

1. ✓ परमाणु ऊर्जा  
2. ✘ सौर ऊर्जा  
3. ✘ पवन ऊर्जा  
4. ✘ ज्वारीय ऊर्जा  
5. ✘ अन्य विकल्पों में से कोई नहीं

Question Number : 33 Question Id : 95937633 Question Type : MCQ

Correct : 2 Wrong : 1

Who is the writer of the book “Chhattisgarhi Bhasha Ka Udavikas”?

Options :

1.  Dr. Narendra Dev Varma
2.  Dr. Shankar Shesh
3.  Dr. Vinay Kumar Pathak
4.  Dr. Bhal Chandra Tailang
5.  None of the other option

Question Number : 33 Question Id : 95937633 Question Type : MCQ

Correct : 2 Wrong : 1

‘छत्तीसगढ़ी भाषा का उद्विकास’ पुस्तक के लेखक कौन है?

Options :

1.  डॉ. नरेन्द्र देव वर्मा
2.  डॉ. शंकर शेष
3.  डॉ. विनय कुमार पाठक
4.  डॉ. भालचंद्र तैलंग
5.  अन्य विकल्पों में से कोई नहीं

Question Number : 34 Question Id : 95937634 Question Type : MCQ

Correct : 2 Wrong : 1

Which is the book written by Rewaram Babu of Ratanpur (Chhattisgarh)?

- (i) Ramashwa Megh
- (ii) Vikram Vilas
- (iii) Gita Madhav Mahakavya

Options :

1.  Only i
2.  Only ii
3.  Only iii
4.  i, ii and iii
5.  None of the other option

Question Number : 34 Question Id : 95937634 Question Type : MCQ

Correct : 2 Wrong : 1

रतनपुर (छत्तीसगढ़) के रेवाराम बाबू द्वारा लिखित पुस्तक कोन सी है?

- i. रामाश्व मेघ
- ii. विक्रम विलास
- iii. गीतामाधव महाकाव्य

Options :

1.  केवल i

2. ✘ केवल ii
3. ✘ केवल iii
4. ✓ i, ii और iii
5. ✘ अन्य विकल्पों में से कोई नहीं

Question Number : 35 Question Id : 95937635 Question Type : MCQ

Correct : 2 Wrong : 1

What is 'Dadaria'?

Options :

1. ✓ Love Song
2. ✘ Bhakti Song (Worship Song)
3. ✘ Dance Song
4. ✘ Festival Song
5. ✘ None of the other option

Question Number : 35 Question Id : 95937635 Question Type : MCQ

Correct : 2 Wrong : 1

'ददरिया' क्या है?

Options :

1. ✓ प्रणय गीत
2. ✘ भक्ति गीत
3. ✘ नृत्य गीत
4. ✘ त्यौहार गीत
5. ✘ अन्य विकल्पों में से कोई नहीं

Question Number : 36 Question Id : 95937636 Question Type : MCQ

Correct : 2 Wrong : 1

Where the Bamalai Devi's temple is located in Chhattisgarh?

Options :

1. ✘ Khairagarh
2. ✓ Dongargarh
3. ✘ Raipur
4. ✘ Ratanpur
5. ✘ None of the other option

Question Number : 36 Question Id : 95937636 Question Type : MCQ

Correct : 2 Wrong : 1

छत्तीसगढ़ में बमलाई देवी का मंदिर कहां है?

Options :

1. ✗ खैरागढ़
2. ✓ डोंगरगढ़
3. ✗ रायपुर
4. ✗ रत्नपुर
5. ✗ अन्य विकल्पों में से कोई नहीं

Question Number : 37 Question Id : 95937637 Question Type : MCQ

Correct : 2 Wrong : 1

When is the “Guara Geet” sung?

Options :

1. ✗ Janmastami
2. ✗ Ganesh Chaturthi
3. ✗ Navratri
4. ✓ Deepawali
5. ✗ None of the other option

Question Number : 37 Question Id : 95937637 Question Type : MCQ

Correct : 2 Wrong : 1

‘गौरा-गीत’ कब गाते हैं?

Options :

1. ✗ जन्माष्टमी
2. ✗ गणेश चतुर्थी
3. ✗ नवरात्रि
4. ✓ दीपावली
5. ✗ अन्य विकल्पों में से कोई नहीं

Question Number : 38 Question Id : 95937638 Question Type : MCQ

Correct : 2 Wrong : 1

Who are the main characters of the Chhattisgarhi Lokgayan (Folk Song) “Foolbasan”?

Options :

1. ✗ Hidimba and Bheem
2. ✗ Dropati and Arjun
3. ✓ Sita and Laxman
4. ✗ Lorik and Chanda

5. ❌ None of the other option

Question Number : 38 Question Id : 95937638 Question Type : MCQ

Correct : 2 Wrong : 1

छत्तीसगढ़ी लोकगायन “फूलबासन” के मुख्य पात्र कौन हैं?

Options :

1. ❌ हिडिम्बा और भीम
2. ❌ द्रौपदी और अर्जुन
3. ✓ सीता और लक्ष्मण
4. ❌ लोरिक और चन्दा
5. ❌ अन्य विकल्पों में से कोई नहीं

Question Number : 39 Question Id : 95937639 Question Type : MCQ

Correct : 2 Wrong : 1

Who perform the Panthi Nritya (Dance) in Chhattisgarh?

Options :

1. ❌ Kabir panthi
2. ✓ Satnami
3. ❌ Tribals
4. ❌ Raut
5. ❌ None of the other option

Question Number : 39 Question Id : 95937639 Question Type : MCQ

Correct : 2 Wrong : 1

छत्तीसगढ़ में “पंथीनृत्य” कौन करते हैं?

Options :

1. ❌ कबीर पंथी
2. ✓ सतनामी
3. ❌ आदिवासी
4. ❌ राऊत
5. ❌ अन्य विकल्पों में से कोई नहीं

Question Number : 40 Question Id : 95937640 Question Type : MCQ

Correct : 2 Wrong : 1

Where is origin of “Mahanadi”?

Options :

1. ❌ Rajim

- 2. ✘ Shivri Narayan
- 3. ✓ Sihava (Pharsiya)
- 4. ✘ Mahasamund
- 5. ✘ None of the other option

Question Number : 40 Question Id : 95937640 Question Type : MCQ

Correct : 2 Wrong : 1

महानदी का उद्गम कहां है?

Options :

- 1. ✘ राजिम
- 2. ✘ शिवरी नारायण
- 3. ✓ सिहावा (फरसिया)
- 4. ✘ महासमुन्द
- 5. ✘ अन्य विकल्पों में से कोई नहीं

Question Number : 41 Question Id : 95937641 Question Type : MCQ

Correct : 2 Wrong : 1

Why the “Jogimara” is famous?

Options :

- 1. ✘ Sculpture
- 2. ✘ Silk craft
- 3. ✘ Dhokala shilp ( Bell Metal)
- 4. ✘ Wooden craft
- 5. ✓ None of the other option

Question Number : 41 Question Id : 95937641 Question Type : MCQ

Correct : 2 Wrong : 1

“जोगीमारा” क्यों प्रसिद्ध है?

Options :

- 1. ✘ मुर्ती कला
- 2. ✘ कोसा शिल्प
- 3. ✘ ढोकला शिल्प
- 4. ✘ काष्ठ शिल्प
- 5. ✓ अन्य विकल्पों में से कोई नहीं

Question Number : 42 Question Id : 95937642 Question Type : MCQ

Correct : 2 Wrong : 1

What is the meaning of Chhattisgarhi riddle “Ek parra lai, Badar ma Chhariyai”?

Options :

1. ✘ Lai (Parched Peddy)
2. ✘ Dant (Teeth)
3. ✓ Chandaini (stars)
4. ✘ Murra (Parched Rice)
5. ✘ None of the other option

Question Number : 42 Question Id : 95937642 Question Type : MCQ

Correct : 2 Wrong : 1

छत्तीसगढ़ी जनश्लोक “एक परा लाई, बादर मा छरियाई” का क्या अर्थ है?

Options :

1. ✘ लाई (धान की लाई)
2. ✘ दांत
3. ✓ चंदैनी (तारे)
4. ✘ मुर्रा (मुरमुरा)
5. ✘ अन्य विकल्पों में से कोई नहीं

Question Number : 43 Question Id : 95937643 Question Type : MCQ

Correct : 2 Wrong : 1

What is the dialect of “Bhataranat”?

Options :

1. ✘ Halbi
2. ✘ Gondi
3. ✘ Gadbi
4. ✘ Chhattisgarhi
5. ✓ None of the other option

Question Number : 43 Question Id : 95937643 Question Type : MCQ

Correct : 2 Wrong : 1

“भतरानाट” की बोली क्या है?

Options :

1. ✘ हल्बी
2. ✘ गोंडी
3. ✘ गदबी
4. ✘ छत्तीसगढ़ी



5. ✓ अन्य विकल्पों में से कोई नहीं

Question Number : 44 Question Id : 95937644 Question Type : MCQ

Correct : 2 Wrong : 1

What is the meaning of Chhattisgarhi idiom “Ek langhan, Ek farhar”?

Options :

1. ✓ Nichchat Garib (Very poor)
2. ✗ Upas (Fast)
3. ✗ Ek samay upas (One time fast)
4. ✗ Farhar (Diet of fruits only)
5. ✗ None of the other option

Question Number : 44 Question Id : 95937644 Question Type : MCQ

Correct : 2 Wrong : 1

छत्तीसगढ़ी मुहावरा “एक लांघन एक फरहार” का क्या अर्थ है?

Options :

1. ✓ निच्छट गरीब (अत्यंत गरीब)
2. ✗ उपास (उपवास)
3. ✗ एक समय उपास (एक समय उपवास)
4. ✗ फरहार (फलाहार)
5. ✗ अन्य विकल्पों में से कोई नहीं

Question Number : 45 Question Id : 95937645 Question Type : MCQ

Correct : 2 Wrong : 1

Who inaugurated “Purkhouti Muktangan” in naya Raipur?

Options :

1. ✗ Smt. Pratibha Devi Singh Patil
2. ✓ Dr. A.P.J. Abdul Kalam
3. ✗ Shri Pranab Mukherjee
4. ✗ Shri K.R Narayanan
5. ✗ None of the other option

Question Number : 45 Question Id : 95937645 Question Type : MCQ

Correct : 2 Wrong : 1

नया रायपुर में “पुरखौती मुक्तागन” का उद्घाटन किसने किया था?

Options :

1. ✗ श्रीमती प्रतिभा देवी सिंह पाटिल

2. ✓ डॉ. ए. पी. जे. अब्दूल कलाम

3. ✗ श्री. प्रणब मुखर्जी

4. ✗ श्री. के. आर. नारायणन

5. ✗ अन्य विकल्पों में से कोई नहीं

Question Number : 46 Question Id : 95937646 Question Type : MCQ

Correct : 2 Wrong : 1

Indira kala sangeet vishwa-vidyalaya khairagarh was named after the following.

Options :

1. ✗ Smt Indira Gandhi

2. ✗ Indra Nooyi

3. ✓ Rajkumari Indira Devi

4. ✗ Indira Joshi

5. ✗ None of the other option

Question Number : 46 Question Id : 95937646 Question Type : MCQ

Correct : 2 Wrong : 1

निम्नलिखित में से किसके नाम पर “इंदिरा कला संगीत विश्वविद्यालय” खेरागढ़ का नाम रखा गया?

Options :

1. ✗ श्रीमती इंदिरा गांधी

2. ✗ इंद्रा नुयी

3. ✓ राजकुमारी इंदिरा देवी

4. ✗ इंदिरा जोशी

5. ✗ अन्य विकल्पों में से कोई नहीं

Question Number : 47 Question Id : 95937647 Question Type : MCQ

Correct : 2 Wrong : 1

When the Sardar Vallabh Bhai Patel international Hockey stadium situated at Raipur was dedicated?

Options :

1. ✗ October 2015

2. ✓ November 2015

3. ✗ December 2015

4. ✗ January 2016

5. ✗ None of the other option

Question Number : 47 Question Id : 95937647 Question Type : MCQ

Correct : 2 Wrong : 1

रायपुर स्थित सरदार बलभ भाई पटेल अंतराष्ट्रीय हाकी स्टेडियम का लोकार्पण कब हुआ?

Options :

1. ✗ अक्टूबर 2015
2. ✓ नवम्बर 2015
3. ✗ दिसम्बर 2015
4. ✗ जनवरी 2016
5. ✗ अन्य विकल्पों में से कोई नहीं

Question Number : 48 Question Id : 95937648 Question Type : MCQ

Correct : 2 Wrong : 1

Free computer education programme for school girls students by Chhattisgarh Government is -

Options :

1. ✗ Sarv Shiksha Abhiyan
2. ✗ Indira Sahara Yojna
3. ✗ Padho, Padhabo, School jao Campaign
4. ✓ Chhattisgarh Suchna Shakti Yojna
5. ✗ None of the other option

Question Number : 48 Question Id : 95937648 Question Type : MCQ

Correct : 2 Wrong : 1

छत्तीसगढ़ शासन द्वारा स्कूली छात्राओं हेतु निःशुल्क कम्प्यूटर शिक्षा योजना है-

Options :

1. ✗ सर्वशिक्षा अभियान
2. ✗ इंदिरा सहारा योजना
3. ✗ पढ़बो, पढ़ाबो, स्कूल जाबो अभियान
4. ✓ छत्तीसगढ़ सुचना शक्ति योजना
5. ✗ अन्य विकल्पों में से कोई नहीं

Question Number : 49 Question Id : 95937649 Question Type : MCQ

Correct : 2 Wrong : 1

“Kalpvriksha” yojna in Chhattisgarh was started to provide employment to:

Options :

1. ✓ Scheduled Tribe women
2. ✗ Scheduled Tribe men
3. ✗ Scheduled caste women
4. ✗ Scheduled caste men
5. ✗ None of the other option

Question Number : 49 Question Id : 95937649 Question Type : MCQ

Correct : 2 Wrong : 1

छत्तीसगढ़ में “कल्पवृक्ष योजना” किसको रोजगार उपलब्ध कराने के उद्देश्य से प्रारंभ की गई है?

Options :

1. ✓ अनुसूचित जनजाति की महिलाओं को
2. ✗ अनुसूचित जनजाति के पुरुषों को
3. ✗ अनुसूचित जाति के पुरुषों को
4. ✗ अनुसूचित जाति की महिलाओं को
5. ✗ अन्य विकल्पों में से कोई नहीं

Question Number : 50 Question Id : 95937650 Question Type : MCQ

Correct : 2 Wrong : 1

Who is the present chairman of Chhattisgarh Rajbhasha Aayog?

Options :

1. ✗ Shri Shyam Lal Chaturvedi
2. ✗ Shri Daneshwar Sharma
3. ✓ Dr. Vinay Pathak
4. ✗ Shri Rajendra Pambhai
5. ✗ None of the other option

Question Number : 50 Question Id : 95937650 Question Type : MCQ

Correct : 2 Wrong : 1

छत्तीसगढ़ राजभाषा के वर्तमान अध्यक्ष कौन है?

Options :

1. ✗ श्री. श्यामलाल चतुर्वेदी
2. ✗ श्री. जानेश्वर शर्मा
3. ✓ डॉ. विनय पाठक
4. ✗ श्री. राजेन्द्र पामभोई



5. ✗ अन्य विकल्पों में से कोई नहीं

Zoology

Mandatory or Optional:

Mandatory

Question Number : 51 Question Id : 95937651 Question Type : MCQ

Correct : 2 Wrong : 1

Which of the following is an imino acid?

Options :

1. ✗ Histidine

2. ✗ Phenylalanine

3. ✗ Glycine

4. ✓ Proline

5. ✗ Cysteine

Question Number : 51 Question Id : 95937651 Question Type : MCQ

Correct : 2 Wrong : 1

Which of the following is an imino acid?

Options :

1. ✗ Histidine

2. ✗ Phenylalanine

3. ✗ Glycine

4. ✓ Proline

5. ✗ Cysteine

Question Number : 52 Question Id : 95937652 Question Type : MCQ

Correct : 2 Wrong : 1

Which of the following is not true about DNA?

Options :

1. ✓ A-DNA is usually in a left handed helix structure

2. ✗ B-DNA has 10.5 base pairs per helical turn

3. ✗ Z-DNA is usually in a left handed helix structure

4. ✗ A-DNA has 11 base pairs per helical turn

5. ✗ B-DNA is usually in a right handed helix structure

Question Number : 52 Question Id : 95937652 Question Type : MCQ

Correct : 2 Wrong : 1

Which of the following is not true about DNA?

Options :

1. ✓ A-DNA is usually in a left handed helix structure
2. ✗ B-DNA has 10.5 base pairs per helical turn
3. ✗ Z-DNA is usually in a left handed helix structure
4. ✗ A-DNA has 11 base pairs per helical turn
5. ✗ B-DNA is usually in a right handed helix structure

Question Number : 53 Question Id : 95937653 Question Type : MCQ

Correct : 2 Wrong : 1

Which of the following statements are correct?

P) anomers differ in configuration at glycosidic carbon  
Q) epimers differ in configuration at any other carbon other than glycosidic carbon  
R) in aldose, C1 is the anomeric carbon  
S) epimers differ in chemical properties

Options :

1. ✗ P and Q
2. ✗ R and S
3. ✗ P and R
4. ✗ P, Q and R
5. ✓ P, Q, R and S

Question Number : 53 Question Id : 95937653 Question Type : MCQ

Correct : 2 Wrong : 1

Which of the following statements are correct?

P) anomers differ in configuration at glycosidic carbon  
Q) epimers differ in configuration at any other carbon other than glycosidic carbon  
R) in aldose, C1 is the anomeric carbon  
S) epimers differ in chemical properties

Options :

1. ✗ P and Q
2. ✗ R and S
3. ✗ P and R
4. ✗ P, Q and R
5. ✓ P, Q, R and S

Question Number : 54 Question Id : 95937654 Question Type : MCQ

Correct : 2 Wrong : 1

Enzyme that converts 1,3-bisphosphoglycerate to 3-phosphoglycerate is:

Options :

1. ✗ Hexokinase
2. ✓ Phosphoglycerate kinase
3. ✗ Phosphofructokinase
4. ✗ Pyruvate kinase
5. ✗ Phosphoglycerate mutase

Question Number : 54 Question Id : 95937654 Question Type : MCQ

Correct : 2 Wrong : 1

Enzyme that converts 1,3-bisphosphoglycerate to 3-phosphoglycerate is:

Options :

1. ✗ Hexokinase
2. ✓ Phosphoglycerate kinase
3. ✗ Phosphofructokinase
4. ✗ Pyruvate kinase
5. ✗ Phosphoglycerate mutase

Question Number : 55 Question Id : 95937655 Question Type : MCQ

Correct : 2 Wrong : 1

A severe disease that results from failure to absorb vitamin B12 efficiently from the intestine is:

Options :

1. ✗ Beri-Beri
2. ✗ Scurvy
3. ✓ Pernicious anemia
4. ✗ Pyria
5. ✗ Rickets

Question Number : 55 Question Id : 95937655 Question Type : MCQ

Correct : 2 Wrong : 1

A severe disease that results from failure to absorb vitamin B12 efficiently from the intestine is:

Options :

1. ✗ Beri-Beri
2. ✗ Scurvy
3. ✓ Pernicious anemia
4. ✗ Pyria
5. ✗ Rickets

Question Number : 56 Question Id : 95937656 Question Type : MCQ

Correct : 2 Wrong : 1

Which one of the following is a correct statement for Na-K ATPase?

Options :

1. ✗ It gives out 3 K-ion and takes in 2 Na-ion
2. ✗ It gives out 2 Na-ions and takes in 3 K-ions
3. ✗ It gives out 3 Ca-ions and takes in 2 K-ions
4. ✗ It gives out 3 Na-ions and takes in 2 Ca-ions
5. ✓ It gives out 3 Na-ion and takes in 2 K-ions

Question Number : 56 Question Id : 95937656 Question Type : MCQ

Correct : 2 Wrong : 1

Which one of the following is a correct statement for Na-K ATPase?

Options :

1. ✗ It gives out 3 K-ion and takes in 2 Na-ion
2. ✗ It gives out 2 Na-ions and takes in 3 K-ions
3. ✗ It gives out 3 Ca-ions and takes in 2 K-ions
4. ✗ It gives out 3 Na-ions and takes in 2 Ca-ions
5. ✓ It gives out 3 Na-ion and takes in 2 K-ions

Question Number : 57 Question Id : 95937657 Question Type : MCQ

Correct : 2 Wrong : 1

Acidic organelles that contain a battery of degradation enzymes are:

Options :

1. ✓ Lysosome
2. ✗ Nucleus
3. ✗ Chloroplast
4. ✗ Plastid
5. ✗ Golgi bodies

Question Number : 57 Question Id : 95937657 Question Type : MCQ

Correct : 2 Wrong : 1

Acidic organelles that contain a battery of degradation enzymes are:

Options :

1. ✓ Lysosome
2. ✗ Nucleus
3. ✗ Chloroplast
4. ✗ Plastid



5. ✘ Golgi bodies

Question Number : 58 Question Id : 95937658 Question Type : MCQ

Correct : 2 Wrong : 1

Which intracellular organelle contain copious amounts of enzyme catalase?

Options :

1. ✘ Golgi bodies
2. ✓ Peroxisome
3. ✘ Mitochondria
4. ✘ Lysosome
5. ✘ Endoplasmic reticulum

Question Number : 58 Question Id : 95937658 Question Type : MCQ

Correct : 2 Wrong : 1

Which intracellular organelle contain copious amounts of enzyme catalase?

Options :

1. ✘ Golgi bodies
2. ✓ Peroxisome
3. ✘ Mitochondria
4. ✘ Lysosome
5. ✘ Endoplasmic reticulum

Question Number : 59 Question Id : 95937659 Question Type : MCQ

Correct : 2 Wrong : 1

Which complex initiates phosphorylation of Rb protein during cell cycle regulation?

Options :

1. ✘ Cdk1-cyclin B complex
2. ✘ Cdk1-cyclin A complex
3. ✘ Cdk2-cyclin E complex
4. ✘ Cdk2-cyclin A complex
5. ✓ Cdk4/6-cyclin D complex

Question Number : 59 Question Id : 95937659 Question Type : MCQ

Correct : 2 Wrong : 1

Which complex initiates phosphorylation of Rb protein during cell cycle regulation?

Options :

1. ✘ Cdk1-cyclin B complex
2. ✘ Cdk1-cyclin A complex



- 3. ✘ Cdk2-cyclin E complex
- 4. ✘ Cdk2-cyclin A complex
- 5. ✓ Cdk4/6-cyclin D complex

Question Number : 60 Question Id : 95937660 Question Type : MCQ

Correct : 2 Wrong : 1

Which of the following are correct about transport ATPase?

- P. P, F, and V type transport ATPase transport ion only
- Q.  $\text{Na}^+/\text{K}^+$  pump is an example of P type transport ATPase
- R. All members of the ABC superfamily contain two cytosolic ATP-binding domains
- S. F and V-class ATPase do not form phosphoprotein intermediates and transport only protons.

Options :

- 1. ✘ P, R
- 2. ✘ Q,R,S
- 3. ✘ P,Q
- 4. ✓ P,Q,R,S
- 5. ✘ P,Q,R

Question Number : 60 Question Id : 95937660 Question Type : MCQ

Correct : 2 Wrong : 1

Which of the following are correct about transport ATPase?

- P. P, F, and V type transport ATPase transport ion only
- Q.  $\text{Na}^+/\text{K}^+$  pump is an example of P type transport ATPase
- R. All members of the ABC superfamily contain two cytosolic ATP-binding domains
- S. F and V-class ATPase do not form phosphoprotein intermediates and transport only protons.

Options :

- 1. ✘ P, R
- 2. ✘ Q,R,S
- 3. ✘ P,Q
- 4. ✓ P,Q,R,S
- 5. ✘ P,Q,R

Question Number : 61 Question Id : 95937661 Question Type : MCQ

Correct : 2 Wrong : 1

*E. coli* cells grown on  $^{15}\text{N}$  medium are transferred to  $^{14}\text{N}$  medium and allowed to grow for two generations (two cell replications). DNA extracted from these cells is centrifuged. What density distribution of DNA would you expect in this experiment?

Options :

1. ✘ one high-density and one low-density band
2. ✘ one intermediate-density band
3. ✘ one high-density and one intermediate-density band
4. ✓ one low-density and one intermediate-density band
5. ✘ one high density band

Question Number : 61 Question Id : 95937661 Question Type : MCQ

Correct : 2 Wrong : 1

*E. coli* cells grown on  $^{15}\text{N}$  medium are transferred to  $^{14}\text{N}$  medium and allowed to grow for two generations (two cell replications). DNA extracted from these cells is centrifuged. What density distribution of DNA would you expect in this experiment?

Options :

1. ✘ one high-density and one low-density band
2. ✘ one intermediate-density band
3. ✘ one high-density and one intermediate-density band
4. ✓ one low-density and one intermediate-density band
5. ✘ one high density band

Question Number : 62 Question Id : 95937662 Question Type : MCQ

Correct : 2 Wrong : 1

Replication of DNA in higher eukaryotes commences from:

Options :

1. ✘ One end of chromatid extending to the other end
2. ✘ Both ends of the chromatid simultaneously
3. ✘ The centromere to either of the ends of chromatids
4. ✓ Several sites of the DNA of The chromatid simultaneously
5. ✘ Both from centromere and telomere

Question Number : 62 Question Id : 95937662 Question Type : MCQ

Correct : 2 Wrong : 1

Replication of DNA in higher eukaryotes commences from:

Options :

1. ✘ One end of chromatid extending to the other end
2. ✘ Both ends of the chromatid simultaneously



3. ✘ The centromere to either of the ends of chromatids
4. ✓ Several sites of the DNA of The chromatid simultaneously
5. ✘ Both from centromere and telomere

Question Number : 63 Question Id : 95937663 Question Type : MCQ

Correct : 2 Wrong : 1

Sigma subunit of RNA polymerase:

Options :

1. ✓ Specifies the sites for transcription
2. ✘ Initiate replication
3. ✘ Provides contact between ribonucleotides and DNA template
4. ✘ Terminate transcription
5. ✘ Initiates translation

Question Number : 63 Question Id : 95937663 Question Type : MCQ

Correct : 2 Wrong : 1

Sigma subunit of RNA polymerase:

Options :

1. ✓ Specifies the sites for transcription
2. ✘ Initiate replication
3. ✘ Provides contact between ribonucleotides and DNA template
4. ✘ Terminate transcription
5. ✘ Initiates translation

Question Number : 64 Question Id : 95937664 Question Type : MCQ

Correct : 2 Wrong : 1

Which of the following protein factors are required for the addition of an amino acid residue to a growing polypeptide chain during protein biosynthesis in *E. coli*?

Options :

1. ✘ IF-1, IF-2 and IF-3
2. ✘ Factor G
3. ✘ Factor R
4. ✓ Factor Tu and Ts
5. ✘ RF3

Question Number : 64 Question Id : 95937664 Question Type : MCQ

Correct : 2 Wrong : 1

Which of the following protein factors are required for the addition of an amino acid residue to a growing polypeptide chain during protein biosynthesis in *E. coli*?

Options :

1. ✘ IF-1, IF-2 and IF-3
2. ✘ Factor G
3. ✘ Factor R
4. ✓ Factor Tu and Ts
5. ✘ RF3

Question Number : 65 Question Id : 95937665 Question Type : MCQ

Correct : 2 Wrong : 1

In bacteria, which enzyme unwinds double-stranded DNA until it meets a *Chi site* and then cuts one strand of the DNA:

Options :

1. ✘ RecA
2. ✓ RecBCD
3. ✘ UvrABC
4. ✘ UvrD
5. ✘ RuvB

Question Number : 65 Question Id : 95937665 Question Type : MCQ

Correct : 2 Wrong : 1

In bacteria, which enzyme unwinds double-stranded DNA until it meets a *Chi site* and then cuts one strand of the DNA:

Options :

1. ✘ RecA
2. ✓ RecBCD
3. ✘ UvrABC
4. ✘ UvrD
5. ✘ RuvB

Question Number : 66 Question Id : 95937666 Question Type : MCQ

Correct : 2 Wrong : 1

P<sup>53</sup> protein is associated with which of the following:

Options :

1. ✘ Transcription
2. ✘ Post-transcriptional modification
3. ✓ Tumor suppression
4. ✘ Translation
5. ✘ Replication

Question Number : 66 Question Id : 95937666 Question Type : MCQ

Correct : 2 Wrong : 1

P<sup>53</sup> protein is associated with which of the following:

Options :

1. ✘ Transcription
2. ✘ Post-transcriptional modification
3. ✓ Tumor suppression
4. ✘ Translation
5. ✘ Replication

Question Number : 67 Question Id : 95937667 Question Type : MCQ

Correct : 2 Wrong : 1

An MHC class I molecule was run on an SDS-polyacrylamide gel. How many protein bands will be observed in the gel?

Options :

1. ✘ 4
2. ✓ 2
3. ✘ 1
4. ✘ 3
5. ✘ 5

Question Number : 67 Question Id : 95937667 Question Type : MCQ

Correct : 2 Wrong : 1

An MHC class I molecule was run on an SDS-polyacrylamide gel. How many protein bands will be observed in the gel?

Options :

1. ✘ 4
2. ✓ 2
3. ✘ 1
4. ✘ 3
5. ✘ 5

Question Number : 68 Question Id : 95937668 Question Type : MCQ

Correct : 2 Wrong : 1

Which of the following is a cell adhesion molecule?

Options :

1. ✓ Integrin
2. ✘ Lysine
3. ✘ Myosin
4. ✘ Keratin
5. ✘ Actin

Question Number : 68 Question Id : 95937668 Question Type : MCQ

Correct : 2 Wrong : 1

Which of the following is a cell adhesion molecule?

Options :

1.  Integrin
2.  Lysine
3.  Myosin
4.  Keratin
5.  Actin

Question Number : 69 Question Id : 95937669 Question Type : MCQ

Correct : 2 Wrong : 1

In the CAMP pathway, the G protein stimulates:

Options :

1.  Phospholipase C
2.  Adenylate
3.  The endoplasmic reticulum
4.  Calmodulin
5.  Protein kinase C

Question Number : 69 Question Id : 95937669 Question Type : MCQ

Correct : 2 Wrong : 1

In the CAMP pathway, the G protein stimulates:

Options :

1.  Phospholipase C
2.  Adenylate
3.  The endoplasmic reticulum
4.  Calmodulin
5.  Protein kinase C

Question Number : 70 Question Id : 95937670 Question Type : MCQ

Correct : 2 Wrong : 1

Which of the following immunoglobins has high affinity to Fc receptors on phagocytic cells and mediate opsonization?

Options :

1.  IgG4
2.  IgG2
3.  IgG1 and IgG3

- 4. ✘ IgG4 and IgG2
- 5. ✘ IgG1 and IgG4

Question Number : 70 Question Id : 95937670 Question Type : MCQ

Correct : 2 Wrong : 1

Which of the following immunoglobins has high affinity to Fc receptors on phagocytic cells and mediate opsonization?

Options :

- 1. ✘ IgG4
- 2. ✘ IgG2
- 3. ✓ IgG1 and IgG3
- 4. ✘ IgG4 and IgG2
- 5. ✘ IgG1 and IgG4

Question Number : 71 Question Id : 95937671 Question Type : MCQ

Correct : 2 Wrong : 1

The pattern of chromosomal sex determination in birds is:

Options :

- 1. ✘ XY-XX
- 2. ✓ ZW-ZZ
- 3. ✘ XO-XX
- 4. ✘ Compound sex
- 5. ✘ WZ-WW

Question Number : 71 Question Id : 95937671 Question Type : MCQ

Correct : 2 Wrong : 1

The pattern of chromosomal sex determination in birds is:

Options :

- 1. ✘ XY-XX
- 2. ✓ ZW-ZZ
- 3. ✘ XO-XX
- 4. ✘ Compound sex
- 5. ✘ WZ-WW

Question Number : 72 Question Id : 95937672 Question Type : MCQ

Correct : 2 Wrong : 1

Which cellular organelle is involved in the initiation of the intrinsic pathway of apoptosis?

Options :

- 1. ✘ Endoplasmic reticulum
- 2. ✘ Vacuoles

- 3. ✘ Lysosomes
- 4. ✓ Mitochondria
- 5. ✘ Peroxisomes

Question Number : 72 Question Id : 95937672 Question Type : MCQ

Correct : 2 Wrong : 1

Which cellular organelle is involved in the initiation of the intrinsic pathway of apoptosis?

Options :

- 1. ✘ Endoplasmic reticulum
- 2. ✘ Vacuoles
- 3. ✘ Lysosomes
- 4. ✓ Mitochondria
- 5. ✘ Peroxisomes

Question Number : 73 Question Id : 95937673 Question Type : MCQ

Correct : 2 Wrong : 1

The interaction of sperm and egg generally proceeds according to five basic steps:

- 1) The binding of the sperm to the extracellular matrix of the egg
- 2) The chemo-attraction of the sperm to the egg by soluble molecules secreted by the egg
- 3) Fusion of egg and sperm cell membranes
- 4) The exocytosis of the sperm acrosomal vesicle to release its enzymes
- 5) The passage of the sperm through the extracellular matrix

Which of the following sequences of steps is correct?

Options :

- 1. ✘ 2, 1, 4, 3, 5
- 2. ✓ 2, 4, 1, 5, 3
- 3. ✘ 4, 2, 1, 5, 3
- 4. ✘ 2, 4, 5, 1, 3
- 5. ✘ 4, 2, 1, 3, 5

Question Number : 73 Question Id : 95937673 Question Type : MCQ

Correct : 2 Wrong : 1

The interaction of sperm and egg generally proceeds according to five basic steps:

- 1) The binding of the sperm to the extracellular matrix of the egg
- 2) The chemo-attraction of the sperm to the egg by soluble molecules secreted by the egg
- 3) Fusion of egg and sperm cell membranes
- 4) The exocytosis of the sperm acrosomal vesicle to release its enzymes
- 5) The passage of the sperm through the extracellular matrix

Which of the following sequences of steps is correct?

Options :

1. ✗ 2, 1, 4, 3, 5
2. ✓ 2, 4, 1, 5, 3
3. ✗ 4, 2, 1, 5, 3
4. ✗ 2, 4, 5, 1, 3
5. ✗ 4, 2, 1, 3, 5

Question Number : 74 Question Id : 95937674 Question Type : MCQ

Correct : 2 Wrong : 1

Which of the following statements are correct regarding development of tetrapod limb?

- 1) Fgf10 is capable of initiating the limb forming interactions between ectoderm and mesoderm.
- 2) The Tbx5 transcription factor in mice is transcribed in the anterior lateral plate mesoderm and in the forelimbs
- 3) The transcription factors Tbx4 and Pitx1 are expressed in the posterior lateral plate mesoderm and in hind limbs
- 4) FGFs are critical for the induction, maintenance, and function of the apical ectodermal ridge

Options :

1. ✗ 1 and 2
2. ✗ 1, 2 and 3
3. ✗ 1, 3 and 4
4. ✗ 2, 3 and 4
5. ✓ 1, 2, 3 and 4

Question Number : 74 Question Id : 95937674 Question Type : MCQ

Correct : 2 Wrong : 1

Which of the following statements are correct regarding development of tetrapod limb?

- 1) Fgf10 is capable of initiating the limb forming interactions between ectoderm and mesoderm.
- 2) The Tbx5 transcription factor in mice is transcribed in the anterior lateral plate mesoderm and in the forelimbs
- 3) The transcription factors Tbx4 and Pitx1 are expressed in the posterior lateral plate mesoderm and in hind limbs
- 4) FGFs are critical for the induction, maintenance, and function of the apical ectodermal ridge

Options :

1. ✘ 1 and 2
2. ✘ 1, 2 and 3
3. ✘ 1, 3 and 4
4. ✘ 2, 3 and 4
5. ✓ 1, 2, 3 and 4

Question Number : 75 Question Id : 95937675 Question Type : MCQ

Correct : 2 Wrong : 1

Centrolecithal cleavage is a characteristic feature of:

Options :

1. ✓ Insects
2. ✘ Reptiles
3. ✘ Cephalopods
4. ✘ Molluscs
5. ✘ Annelids

Question Number : 75 Question Id : 95937675 Question Type : MCQ

Correct : 2 Wrong : 1

Centrolecithal cleavage is a characteristic feature of:

Options :

1. ✓ Insects
2. ✘ Reptiles
3. ✘ Cephalopods
4. ✘ Molluscs
5. ✘ Annelids

Question Number : 76 Question Id : 95937676 Question Type : MCQ

Correct : 2 Wrong : 1

In eukaryotic flagella, the arrangement of microtubules in axoneme is:

Options :

- 1. ✘ 9+1
- 2. ✘ 9+4
- 3. ✘ 9+3
- 4. ✘ 9+0
- 5. ✓ 9+2

Question Number : 76 Question Id : 95937676 Question Type : MCQ

Correct : 2 Wrong : 1

In eukaryotic flagella, the arrangement of microtubules in axoneme is:

Options :

- 1. ✘ 9+1
- 2. ✘ 9+4
- 3. ✘ 9+3
- 4. ✘ 9+0
- 5. ✓ 9+2

Question Number : 77 Question Id : 95937677 Question Type : MCQ

Correct : 2 Wrong : 1

The floor of the buccal cavity in *Pila* is raised into large, laterally compressed platform called the:

Options :

- 1. ✘ Radula
- 2. ✘ Cusps
- 3. ✓ Odontophore
- 4. ✘ Subradular organ
- 5. ✘ Sublingual cavity

Question Number : 77 Question Id : 95937677 Question Type : MCQ

Correct : 2 Wrong : 1

The floor of the buccal cavity in *Pila* is raised into large, laterally compressed platform called the:

Options :

- 1. ✘ Radula
- 2. ✘ Cusps
- 3. ✓ Odontophore
- 4. ✘ Subradular organ
- 5. ✘ Sublingual cavity

Question Number : 78 Question Id : 95937678 Question Type : MCQ

Correct : 2 Wrong : 1

Aphrodite is commonly called as :

Options :

1. ✗ Sea fur
2. ✓ Sea mouse
3. ✗ Sea pen
4. ✗ Sea fan
5. ✗ Sea anemone

Question Number : 78 Question Id : 95937678 Question Type : MCQ

Correct : 2 Wrong : 1

Aphrodite is commonly called as :

Options :

1. ✗ Sea fur
2. ✓ Sea mouse
3. ✗ Sea pen
4. ✗ Sea fan
5. ✗ Sea anemone

Question Number : 79 Question Id : 95937679 Question Type : MCQ

Correct : 2 Wrong : 1

A coelom is formed from paired pouches which arise as lateral outpouchings of the embryonic archenteron, thus the coelom is called:

Options :

1. ✗ Eucoelomic
2. ✗ Schizocoelic
3. ✗ Haemocoelic
4. ✓ Enterocoelic
5. ✗ Pseudocoelic

Question Number : 79 Question Id : 95937679 Question Type : MCQ

Correct : 2 Wrong : 1

A coelom is formed from paired pouches which arise as lateral outpouchings of the embryonic archenteron, thus the coelom is called:

Options :

1. ✗ Eucoelomic
2. ✗ Schizocoelic
3. ✗ Haemocoelic
4. ✓ Enterocoelic
5. ✗ Pseudocoelic

Question Number : 80 Question Id : 95937680 Question Type : MCQ

Correct : 2 Wrong : 1

Which of the following are unique features of the arthropods?

- 1) Characteristic tube feet or podia for locomotion
- 2) Hard exoskeleton of chitinous plates for protection and muscle insertion
- 3) Coxal gland or malpighian tubules for excretion
- 4) Presence of trocophore larva
- 5) Nephridia for excretion and osmoregulation

Options :

1. ✘ 1, 2
2. ✓ 2, 3
3. ✘ 3, 4
4. ✘ 4, 5
5. ✘ 1, 5

Question Number : 80 Question Id : 95937680 Question Type : MCQ

Correct : 2 Wrong : 1

Which of the following are unique features of the arthropods?

- 1) Characteristic tube feet or podia for locomotion
- 2) Hard exoskeleton of chitinous plates for protection and muscle insertion
- 3) Coxal gland or malpighian tubules for excretion
- 4) Presence of trocophore larva
- 5) Nephridia for excretion and osmoregulation

Options :

1. ✘ 1, 2
2. ✓ 2, 3
3. ✘ 3, 4
4. ✘ 4, 5
5. ✘ 1, 5

Question Number : 81 Question Id : 95937681 Question Type : MCQ

Correct : 2 Wrong : 1

Red blood corpuscles are \_\_\_\_\_ in amphibians.

Options :

1. ✘ Oval, biconcave, nucleated
2. ✓ Oval, biconvex, nucleated

- 3. ✘ Elliptical, biconvex, nucleated
- 4. ✘ Round, biconvex, nucleated
- 5. ✘ Round, biconcave, non-nucleated

Question Number : 81 Question Id : 95937681 Question Type : MCQ

Correct : 2 Wrong : 1

Red blood corpuscles are \_\_\_\_\_ in amphibians.

Options :

- 1. ✘ Oval, biconcave, nucleated
- 2. ✓ Oval, biconvex, nucleated
- 3. ✘ Elliptical, biconvex, nucleated
- 4. ✘ Round, biconvex, nucleated
- 5. ✘ Round, biconcave, non-nucleated

Question Number : 82 Question Id : 95937682 Question Type : MCQ

Correct : 2 Wrong : 1

Duration of the cardiac cycle in humans is:

Options :

- 1. ✘ 72 beats/min
- 2. ✓ 1/72 beats/min
- 3. ✘ 62 beats/min
- 4. ✘ 1/62 beats/min
- 5. ✘ 1/70 beats/min

Question Number : 82 Question Id : 95937682 Question Type : MCQ

Correct : 2 Wrong : 1

Duration of the cardiac cycle in humans is:

Options :

- 1. ✘ 72 beats/min
- 2. ✓ 1/72 beats/min
- 3. ✘ 62 beats/min
- 4. ✘ 1/62 beats/min
- 5. ✘ 1/70 beats/min

Question Number : 83 Question Id : 95937683 Question Type : MCQ

Correct : 2 Wrong : 1

Of the nine major air-sacs present in birds \_\_\_\_\_ are paired and \_\_\_\_\_ are unpaired.

Options :

- 1. ✘ One, three

- 2.  Four, one
- 3.  One, four
- 4.  Three, two
- 5.  Two, three

Question Number : 83 Question Id : 95937683 Question Type : MCQ

Correct : 2 Wrong : 1

Of the nine major air-sacs present in birds \_\_\_\_\_ are paired and \_\_\_\_\_ are unpaired.

Options :

- 1.  One, three
- 2.  Four, one
- 3.  One, four
- 4.  Three, two
- 5.  Two, three

Question Number : 84 Question Id : 95937684 Question Type : MCQ

Correct : 2 Wrong : 1

The excretory system of *Calotes* consists of a pair of \_\_\_\_\_ kidneys.

Options :

- 1.  Archinephric
- 2.  Pronephric
- 3.  Mesonephric
- 4.  Opisthonephric
- 5.  Metanephric

Question Number : 84 Question Id : 95937684 Question Type : MCQ

Correct : 2 Wrong : 1

The excretory system of *Calotes* consists of a pair of \_\_\_\_\_ kidneys.

Options :

- 1.  Archinephric
- 2.  Pronephric
- 3.  Mesonephric
- 4.  Opisthonephric
- 5.  Metanephric

Question Number : 85 Question Id : 95937685 Question Type : MCQ

Correct : 2 Wrong : 1

Cushing's syndrome is due to:-

Options :

1. ❌ Hypersecretion of Aldosterone
2. ✓ Hypersecretion of Adrenal Cortex
3. ❌ Hypersecretion of Cortisol
4. ❌ Hyposecretion of Adrenal Cortex
5. ❌ Hyposecretion of Aldosterone

Question Number : 85 Question Id : 95937685 Question Type : MCQ

Correct : 2 Wrong : 1

Cushing's syndrome is due to:-

Options :

1. ❌ Hypersecretion of Aldosterone
2. ✓ Hypersecretion of Adrenal Cortex
3. ❌ Hypersecretion of Cortisol
4. ❌ Hyposecretion of Adrenal Cortex
5. ❌ Hyposecretion of Aldosterone

Question Number : 86 Question Id : 95937686 Question Type : MCQ

Correct : 2 Wrong : 1

Organ of Jacobson is:

Options :

1. ✓ Chemoreceptor
2. ❌ Mechanoreceptor
3. ❌ Olfactory receptor
4. ❌ Auditory receptor
5. ❌ Thermoreceptor

Question Number : 86 Question Id : 95937686 Question Type : MCQ

Correct : 2 Wrong : 1

Organ of Jacobson is:

Options :

1. ✓ Chemoreceptor
2. ❌ Mechanoreceptor
3. ❌ Olfactory receptor
4. ❌ Auditory receptor
5. ❌ Thermoreceptor

Question Number : 87 Question Id : 95937687 Question Type : MCQ

Correct : 2 Wrong : 1

Which of the following are accessory respiratory organs?

- 1) Branchial diverticula
- 2) Swim bladder
- 3) Skin
- 4) Cloacal bladder
- 5) Opercular gill

Options :

1. ✘ 1, 2, 3, 4
2. ✘ 2, 3, 4, 5
3. ✘ 1, 3, 4, 5
4. ✘ 1, 2, 5
5. ✓ 1, 2, 3, 4, 5

Question Number : 87 Question Id : 95937687 Question Type : MCQ

Correct : 2 Wrong : 1

Which of the following are accessory respiratory organs?

- 1) Branchial diverticula
- 2) Swim bladder
- 3) Skin
- 4) Cloacal bladder
- 5) Opercular gill

Options :

1. ✘ 1, 2, 3, 4
2. ✘ 2, 3, 4, 5
3. ✘ 1, 3, 4, 5
4. ✘ 1, 2, 5
5. ✓ 1, 2, 3, 4, 5

Question Number : 88 Question Id : 95937688 Question Type : MCQ

Correct : 2 Wrong : 1

Cleavage in *Scoliodon* is:

Options :

1. ✘ Holoblastic
2. ✓ Meroblastic
3. ✘ Radial
4. ✘ Bilateral
5. ✘ Centrolecithal

Question Number : 88 Question Id : 95937688 Question Type : MCQ

Correct : 2 Wrong : 1

Cleavage in *Scoliodon* is:

Options :

1. ✘ Holoblastic
2. ✓ Meroblastic
3. ✘ Radial
4. ✘ Bilateral
5. ✘ Centrolecithal

Question Number : 89 Question Id : 95937689 Question Type : MCQ

Correct : 2 Wrong : 1

Fishes, amphibians and most reptiles have \_\_\_\_\_ teeth.

Options :

1. ✓ Polyphyodont, acrodont, homodont
2. ✘ Diphyodont, thecodont, homodont
3. ✘ Diphyodont, acrodont, heterodont
4. ✘ Polyphyodont, acrodont, heterodont
5. ✘ Polyphyodont, thecodont, heterodont

Question Number : 89 Question Id : 95937689 Question Type : MCQ

Correct : 2 Wrong : 1

Fishes, amphibians and most reptiles have \_\_\_\_\_ teeth.

Options :

1. ✓ Polyphyodont, acrodont, homodont
2. ✘ Diphyodont, thecodont, homodont
3. ✘ Diphyodont, acrodont, heterodont
4. ✘ Polyphyodont, acrodont, heterodont
5. ✘ Polyphyodont, thecodont, heterodont

Question Number : 90 Question Id : 95937690 Question Type : MCQ

Correct : 2 Wrong : 1

Calcitonin secretion in humans is stimulated by \_\_\_\_\_.

Options :

1. ✘ Increased plasma potassium concentration
2. ✘ Decreased plasma calcium concentration
3. ✓ Increased plasma calcium concentration
4. ✘ Increased plasma sodium concentration
5. ✘ Decreased plasma potassium concentration



Question Number : 90 Question Id : 95937690 Question Type : MCQ

Correct : 2 Wrong : 1

Calcitonin secretion in humans is stimulated by \_\_\_\_\_.

Options :

1.  Increased plasma potassium concentration
2.  Decreased plasma calcium concentration
3.  Increased plasma calcium concentration
4.  Increased plasma sodium concentration
5.  Decreased plasma potassium concentration

Question Number : 91 Question Id : 95937691 Question Type : MCQ

Correct : 2 Wrong : 1

Species that contain two or more sub-species is:-

Options :

1.  Allochronic species
2.  Polytopic species
3.  Sibling species
4.  Polytypic species
5.  Monotypic species

Question Number : 91 Question Id : 95937691 Question Type : MCQ

Correct : 2 Wrong : 1

Species that contain two or more sub-species is:-

Options :

1.  Allochronic species
2.  Polytopic species
3.  Sibling species
4.  Polytypic species
5.  Monotypic species

Question Number : 92 Question Id : 95937692 Question Type : MCQ

Correct : 2 Wrong : 1

Series of contiguous populations in which a given character changes gradually forms:

Options :

1.  Race
2.  Subspecies
3.  Cline
4.  Isophene

5. ✘ Deme

Question Number : 92 Question Id : 95937692 Question Type : MCQ

Correct : 2 Wrong : 1

Series of contiguous populations in which a given character changes gradually forms:

Options :

1. ✘ Race
2. ✘ Subspecies
3. ✓ Cline
4. ✘ Isophene
5. ✘ Deme

Question Number : 93 Question Id : 95937693 Question Type : MCQ

Correct : 2 Wrong : 1

A \_\_\_\_\_ is a monophyletic group composed of one or more species that are separated from other generic taxa by a decided group.

Options :

1. ✘ Cohort
2. ✘ Order
3. ✘ Family
4. ✓ Genus
5. ✘ Tribe

Question Number : 93 Question Id : 95937693 Question Type : MCQ

Correct : 2 Wrong : 1

A \_\_\_\_\_ is a monophyletic group composed of one or more species that are separated from other generic taxa by a decided group.

Options :

1. ✘ Cohort
2. ✘ Order
3. ✘ Family
4. ✓ Genus
5. ✘ Tribe

Question Number : 94 Question Id : 95937694 Question Type : MCQ

Correct : 2 Wrong : 1

According to \_\_\_\_\_, a species is a group interbreeding natural populations that is reproductively isolated from other such groups.

Options :

1. ✘ Typological species concept
2. ✘ Nominalistic species concept

- 3. ❌ Ontological species concept
- 4. ✅ Biological species concept
- 5. ❌ Evolutionary species concept

Question Number : 94 Question Id : 95937694 Question Type : MCQ

Correct : 2 Wrong : 1

According to \_\_\_\_\_, a species is a group interbreeding natural populations that is reproductively isolated from other such groups.

Options :

- 1. ❌ Typological species concept
- 2. ❌ Nominalistic species concept
- 3. ❌ Ontological species concept
- 4. ✅ Biological species concept
- 5. ❌ Evolutionary species concept

Question Number : 95 Question Id : 95937695 Question Type : MCQ

Correct : 2 Wrong : 1

*Archaeopteryx* is a missing link between:-

Options :

- 1. ❌ Birds & mammals
- 2. ❌ Reptiles & amphibians
- 3. ❌ Birds & amphibians
- 4. ❌ Reptiles & mammals
- 5. ✅ Birds & reptiles

Question Number : 95 Question Id : 95937695 Question Type : MCQ

Correct : 2 Wrong : 1

*Archaeopteryx* is a missing link between:-

Options :

- 1. ❌ Birds & mammals
- 2. ❌ Reptiles & amphibians
- 3. ❌ Birds & amphibians
- 4. ❌ Reptiles & mammals
- 5. ✅ Birds & reptiles

Question Number : 96 Question Id : 95937696 Question Type : MCQ

Correct : 2 Wrong : 1

Similarity in a character independently acquired by two taxa is:

Options :

1.  Homoplasy
2.  Analogy
3.  Serial homology
4.  Homology
5.  Divergence

Question Number : 96 Question Id : 95937696 Question Type : MCQ

Correct : 2 Wrong : 1

Similarity in a character independently acquired by two taxa is:

Options :

1.  Homoplasy
2.  Analogy
3.  Serial homology
4.  Homology
5.  Divergence

Question Number : 97 Question Id : 95937697 Question Type : MCQ

Correct : 2 Wrong : 1

Who coined the term monophyletic?

Options :

1.  Hennig
2.  Haeckel
3.  Darwin
4.  Linnaeus
5.  Whittaker

Question Number : 97 Question Id : 95937697 Question Type : MCQ

Correct : 2 Wrong : 1

Who coined the term monophyletic?

Options :

1.  Hennig
2.  Haeckel
3.  Darwin
4.  Linnaeus
5.  Whittaker

Question Number : 98 Question Id : 95937698 Question Type : MCQ

Correct : 2 Wrong : 1

Characters that evolve in only one of two sister groups are termed as:

Options :

1.  Autopomorphic characters
2.  Redundant characters
3.  Monogenic characters
4.  Oligogenic characters
5.  Regressive characters

Question Number : 98 Question Id : 95937698 Question Type : MCQ

Correct : 2 Wrong : 1

Characters that evolve in only one of two sister groups are termed as:

Options :

1.  Autopomorphic characters
2.  Redundant characters
3.  Monogenic characters
4.  Oligogenic characters
5.  Regressive characters

Question Number : 99 Question Id : 95937699 Question Type : MCQ

Correct : 2 Wrong : 1

Which of the following statements is incorrect regarding evolutionary classification?

Options :

1.  Aim is to construct a phylogram
2.  Basis of classification is branching only
3.  Autopomorphies are important for ranking of taxa
4.  All homologous characters, including ancestral ones are used.
5.  Categorical ranking of taxa by degree of difference.

Question Number : 99 Question Id : 95937699 Question Type : MCQ

Correct : 2 Wrong : 1

Which of the following statements is incorrect regarding evolutionary classification?

Options :

1.  Aim is to construct a phylogram
2.  Basis of classification is branching only
3.  Autopomorphies are important for ranking of taxa
4.  All homologous characters, including ancestral ones are used.
5.  Categorical ranking of taxa by degree of difference.

Question Number : 100 Question Id : 959376100 Question Type : MCQ

Correct : 2 Wrong : 1

Which of the following is a package used for phylogenetic analysis?

- 1) PHYLIP
- 2) PAUP
- 3) HENNIG-86
- 4) MacClade
- 5) NTSYS

Options :

- 1. ✗ 1, 2, 3
- 2. ✗ 2, 3, 4, 5
- 3. ✗ 3, 4, 5
- 4. ✗ 1, 4, 5
- 5. ✓ 1, 2, 3, 4, 5

Question Number : 100 Question Id : 959376100 Question Type : MCQ

Correct : 2 Wrong : 1

Which of the following is a package used for phylogenetic analysis?

- 1) PHYLIP
- 2) PAUP
- 3) HENNIG-86
- 4) MacClade
- 5) NTSYS

Options :

- 1. ✗ 1, 2, 3
- 2. ✗ 2, 3, 4, 5
- 3. ✗ 3, 4, 5
- 4. ✗ 1, 4, 5
- 5. ✓ 1, 2, 3, 4, 5

Question Number : 101 Question Id : 959376101 Question Type : MCQ

Correct : 2 Wrong : 1

A couple who are each heterozygous for a recessive allele, that in homozygous condition causes cystic fibrosis, were to have four children. What is the probability that all four children will be unaffected?

Options :

- 1. ✗ 3/4
- 2. ✓ 81/256
- 3. ✗ 108/256
- 4. ✗ 54/256
- 5. ✗ 1/256

Question Number : 101 Question Id : 959376101 Question Type : MCQ

Correct : 2 Wrong : 1

A couple who are each heterozygous for a recessive allele, that in homozygous condition causes cystic fibrosis, were to have four children. What is the probability that all four children will be unaffected?

Options :

1. ✗ 3/4
2. ✓ 81/256
3. ✗ 108/256
4. ✗ 54/256
5. ✗ 1/256

Question Number : 102 Question Id : 959376102 Question Type : MCQ

Correct : 2 Wrong : 1

When two alleles appear to contribute independently to the phenotype of the heterozygotes, they are said to be \_\_\_\_\_.

Options :

1. ✗ Dominant
2. ✗ Partially-dominant
3. ✗ Semi-dominant
4. ✗ Incompletely-dominant
5. ✓ Co-dominant

Question Number : 102 Question Id : 959376102 Question Type : MCQ

Correct : 2 Wrong : 1

When two alleles appear to contribute independently to the phenotype of the heterozygotes, they are said to be \_\_\_\_\_.

Options :

1. ✗ Dominant
2. ✗ Partially-dominant
3. ✗ Semi-dominant
4. ✗ Incompletely-dominant
5. ✓ Co-dominant

Question Number : 103 Question Id : 959376103 Question Type : MCQ

Correct : 2 Wrong : 1

$C^{ch}C^{ch}$  genotype for coat color in rabbit represents which of the following phenotypes:

Options :

1. ✗ Colored hair over the entire body
2. ✗ Black hair on the extremities and white hair everywhere else

3. ❌ White hair over entire body with patches of colored hair  
4. ✅ White hair with black tips on the body  
5. ❌ White hair over the entire body

Question Number : 103 Question Id : 959376103 Question Type : MCQ

Correct : 2 Wrong : 1

$C^{ch}C^{ch}$  genotype for coat color in rabbit represents which of the following phenotypes:

Options :

1. ❌ Colored hair over the entire body  
2. ❌ Black hair on the extremities and white hair everywhere else  
3. ❌ White hair over entire body with patches of colored hair  
4. ✅ White hair with black tips on the body  
5. ❌ White hair over the entire body

Question Number : 104 Question Id : 959376104 Question Type : MCQ

Correct : 2 Wrong : 1

Hemophilia, a blood clotting disorder is due to \_\_\_\_\_.

Options :

1. ❌ Dominant autosomal mutation  
2. ❌ Recessive Y-linked mutation  
3. ❌ Recessive autosomal mutation  
4. ❌ Dominant X-linked mutation  
5. ✅ Recessive X-linked mutation

Question Number : 104 Question Id : 959376104 Question Type : MCQ

Correct : 2 Wrong : 1

Hemophilia, a blood clotting disorder is due to \_\_\_\_\_.

Options :

1. ❌ Dominant autosomal mutation  
2. ❌ Recessive Y-linked mutation  
3. ❌ Recessive autosomal mutation  
4. ❌ Dominant X-linked mutation  
5. ✅ Recessive X-linked mutation

Question Number : 105 Question Id : 959376105 Question Type : MCQ

Correct : 2 Wrong : 1

Down syndrome, a common chromosome abnormality in humans is associated with:

Options :

1. ❌ Extra chromosome 18

2.  Extra chromosome 19
3.  Extra chromosome 21
4.  Extra chromosome X
5.  Extra chromosome 13

Question Number : 105 Question Id : 959376105 Question Type : MCQ

Correct : 2 Wrong : 1

Down syndrome, a common chromosome abnormality in humans is associated with:

Options :

1.  Extra chromosome 18
2.  Extra chromosome 19
3.  Extra chromosome 21
4.  Extra chromosome X
5.  Extra chromosome 13

Question Number : 106 Question Id : 959376106 Question Type : MCQ

Correct : 2 Wrong : 1

The procedure for mapping chromosome was invented by:

Options :

1.  W. Bateson and R. C. Punnett
2.  Watson and Crick
3.  T. H. Morgan
4.  C. B. Bridges
5.  A. H. Sturtevant

Question Number : 106 Question Id : 959376106 Question Type : MCQ

Correct : 2 Wrong : 1

The procedure for mapping chromosome was invented by:

Options :

1.  W. Bateson and R. C. Punnett
2.  Watson and Crick
3.  T. H. Morgan
4.  C. B. Bridges
5.  A. H. Sturtevant

Question Number : 107 Question Id : 959376107 Question Type : MCQ

Correct : 2 Wrong : 1

Which of the following are inherited dominant conditions in humans?

P) Albinism	T) Duchenne muscular dystrophy
Q) Alkaptonuria	U) Huntington's disease
R) Achondroplasia	V) Marfan syndrome
S) Congenital night blindness	

## Options :

1. ✘ P, Q, U, V
2. ✘ Q, R, T, U
3. ✘ R, S, T, V
4. ✘ S, T, U, V
5. ✓ R, S, U, V

Question Number : 107 Question Id : 959376107 Question Type : MCQ

**Correct : 2 Wrong : 1**

Which of the following are inherited dominant conditions in humans?

P) Albinism  
Q) Alkaptonuria  
R) Achondroplasia  
S) Congenital night blindness  
T) Duchenne muscular dystrophy  
U) Huntington's disease  
V) Marfan syndrome

## Options :

1. ✘ P, Q, U, V
2. ✘ Q, R, T, U
3. ✘ R, S, T, V
4. ✘ S, T, U, V
5. ✓ R, S, U, V

Question Number : 108 Question Id : 959376108 Question Type : MCQ

**Correct : 2 Wrong : 1**

Which of the following statements are correct regarding pedigree analysis?

- 1) Autosomal recessive traits appear with equal frequency in males and females
- 2) X-linked recessive traits tend to skip generations
- 3) Affected X-linked dominant males must have affected mothers
- 4) Y-linked traits appear only in males and are passed from a father to all his sons

## Options :

1.  1, 2
2.  2, 3
3.  1, 3, 4
4.  2, 4
5.  1, 2, 3, 4

Question Number : 108 Question Id : 959376108 Question Type : MCQ

Correct : 2 Wrong : 1

Which of the following statements are correct regarding pedigree analysis?

- 1) Autosomal recessive traits appear with equal frequency in males and females
- 2) X-linked recessive traits tend to skip generations
- 3) Affected X-linked dominant males must have affected mothers
- 4) Y-linked traits appear only in males and are passed from a father to all his sons

Options :

1. ✗ 1, 2
2. ✗ 2, 3
3. ✗ 1, 3, 4
4. ✗ 2, 4
5. ✓ 1, 2, 3, 4

Question Number : 109 Question Id : 959376109 Question Type : MCQ

Correct : 2 Wrong : 1

If the environmental variance ( $V_E$ ) increases and all other variance components remain the same, what will the effect be?

Options :

1. ✓ Broad-sense heritability will decrease
2. ✗ Broad-sense heritability will increase
3. ✗ Narrow-sense heritability will increase
4. ✗ Broad-sense heritability will increase, but Narrow-sense heritability will decrease
5. ✗ No effect on Broad-sense heritability

Question Number : 109 Question Id : 959376109 Question Type : MCQ

Correct : 2 Wrong : 1

If the environmental variance ( $V_E$ ) increases and all other variance components remain the same, what will the effect be?

Options :

1. ✓ Broad-sense heritability will decrease
2. ✗ Broad-sense heritability will increase
3. ✗ Narrow-sense heritability will increase
4. ✗ Broad-sense heritability will increase, but Narrow-sense heritability will decrease
5. ✗ No effect on Broad-sense heritability

Question Number : 110 Question Id : 959376110 Question Type : MCQ

Correct : 2 Wrong : 1

Singed bristles (sn), crossveinless wings (cv), and vermilion eye color (v) are due to recessive mutant alleles of three X-linked genes in *Drosophila melanogaster*. When a female heterozygous for each of the three genes was test crossed with a singed, crossveinless and vermilion male, the following progeny were obtained:

<u>Class</u>	<u>Phenotype</u>	<u>Number</u>
1	singed, crossveinless, vermilion	3
2	crossveinless, vermilion	392
3	vermilion	34
4	crossveinless	61
5	singed, crossveinless	32
6	singed, vermilion	65
7	singed	410
8	wild-type	3

Total: 1000

What is the genetic map distance between cv and v?

Options :

1. ✗ 13.4 cM
2. ✗ 15.4 cM
3. ✗ 13.2 cM
4. ✗ 9.2 cM
5. ✓ 20.4 cM

Question Number : 110 Question Id : 959376110 Question Type : MCQ

Correct : 2 Wrong : 1

Singed bristles (sn), crossveinless wings (cv), and vermilion eye color (v) are due to recessive mutant alleles of three X-linked genes in *Drosophila melanogaster*. When a female heterozygous for each of the three genes was test crossed with a singed, crossveinless and vermilion male, the following progeny were obtained:

<u>Class</u>	<u>Phenotype</u>	<u>Number</u>
1	singed, crossveinless, vermilion	3
2	crossveinless, vermilion	392
3	vermilion	34
4	crossveinless	61
5	singed, crossveinless	32
6	singed, vermilion	65
7	singed	410
8	wild-type	3

Total: 1000

What is the genetic map distance between cv and v?

Options :

1. ✗ 13.4 cM
2. ✗ 15.4 cM
3. ✗ 13.2 cM
4. ✗ 9.2 cM
5. ✓ 20.4 cM

Question Number : 111 Question Id : 959376111 Question Type : MCQ

Correct : 2 Wrong : 1

Which of the following statement is correct?

Options :

1. ✗ The niche is the habitat where organism lives
2. ✗ The realized niche is always larger than fundamental niche
3. ✓ The niche includes functional role of organism in the community
4. ✗ The niche is defined only in terms of the dominant environmental factors
5. ✗ The fundamental niche is equal to the realized niche

Question Number : 111 Question Id : 959376111 Question Type : MCQ

Correct : 2 Wrong : 1

Which of the following statement is correct?

Options :

1. ✗ The niche is the habitat where organism lives
2. ✗ The realized niche is always larger than fundamental niche
3. ✓ The niche includes functional role of organism in the community
4. ✗ The niche is defined only in terms of the dominant environmental factors
5. ✗ The fundamental niche is equal to the realized niche

Question Number : 112 Question Id : 959376112 Question Type : MCQ

Correct : 2 Wrong : 1

Commensalism is a symbiotic relationship between two organisms where:

Options :

1. ✗ Both partners benefit
2. ✗ One partner benefits and causes harm to the other
3. ✓ One partner benefits but the other receives no harm
4. ✗ Both partners are disadvantaged
5. ✗ Both partners are benefitted

Question Number : 112 Question Id : 959376112 Question Type : MCQ

Correct : 2 Wrong : 1

Commensalism is a symbiotic relationship between two organisms where:

Options :

1. ✗ Both partners benefit
2. ✗ One partner benefits and causes harm to the other
3. ✓ One partner benefits but the other receives no harm



- 4. ❌ Both partners are disadvantaged
- 5. ❌ Both partners are benefitted

Question Number : 113 Question Id : 959376113 Question Type : MCQ

Correct : 2 Wrong : 1

Which of the following is not true about succession?

- 1) It is a natural process of change in species structure and community with time
- 2) It is a directional and predictable changes
- 3) Food chain relationship becomes less complex as succession proceeds
- 4) Progressive increase in the amount of living biomass as succession proceeds
- 5) Nutrient conservation decreases as succession proceeds

Options :

- 1. ❌ 1 and 2
- 2. ❌ 2 and 5
- 3. ❌ 3 and 4
- 4. ✓ 3 and 5
- 5. ❌ 1 and 4

Question Number : 113 Question Id : 959376113 Question Type : MCQ

Correct : 2 Wrong : 1

Which of the following is not true about succession?

- 1) It is a natural process of change in species structure and community with time
- 2) It is a directional and predictable changes
- 3) Food chain relationship becomes less complex as succession proceeds
- 4) Progressive increase in the amount of living biomass as succession proceeds
- 5) Nutrient conservation decreases as succession proceeds

Options :

- 1. ❌ 1 and 2
- 2. ❌ 2 and 5
- 3. ❌ 3 and 4
- 4. ✓ 3 and 5
- 5. ❌ 1 and 4

Question Number : 114 Question Id : 959376114 Question Type : MCQ

Correct : 2 Wrong : 1

Expanding population is characterized by:

- 1) A pyramid shaped age structure
- 2) An urn shaped age structure
- 3) Pre-reproductive and reproductive age groups become more or less equal in size
- 4) High birth rate

Options :

1. ✗ 1 and 3
2. ✓ 1 and 4
3. ✗ 2 and 3
4. ✗ 3 and 4
5. ✗ 2 and 4

Question Number : 114 Question Id : 959376114 Question Type : MCQ

Correct : 2 Wrong : 1

Expanding population is characterized by:

- 1) A pyramid shaped age structure
- 2) An urn shaped age structure
- 3) Pre-reproductive and reproductive age groups become more or less equal in size
- 4) High birth rate

Options :

1. ✗ 1 and 3
2. ✓ 1 and 4
3. ✗ 2 and 3
4. ✗ 3 and 4
5. ✗ 2 and 4

Question Number : 115 Question Id : 959376115 Question Type : MCQ

Correct : 2 Wrong : 1

The term ecosystem was first proposed by:

Options :

1. ✗ Odum in 1938
2. ✗ Mobius in 1877
3. ✓ Tansley in 1935
4. ✗ Haeckel in 1866
5. ✗ Forbes in 1887

Question Number : 115 Question Id : 959376115 Question Type : MCQ

Correct : 2 Wrong : 1

The term ecosystem was first proposed by:

Options :

1. ✘ Odum in 1938

2. ✘ Möbius in 1877

3. ✓ Tansley in 1935

4. ✘ Haeckel in 1866

5. ✘ Forbes in 1887

Question Number : 116 Question Id : 959376116 Question Type : MCQ

Correct : 2 Wrong : 1

The rate of storage of organic matter not used by heterotrophs is known as:

Options :

1. ✘ Gross primary productivity

2. ✘ Net primary productivity

3. ✓ Net community productivity

4. ✘ Secondary productivity

5. ✘ Net biome productivity

Question Number : 116 Question Id : 959376116 Question Type : MCQ

Correct : 2 Wrong : 1

The rate of storage of organic matter not used by heterotrophs is known as:

Options :

1. ✘ Gross primary productivity

2. ✘ Net primary productivity

3. ✓ Net community productivity

4. ✘ Secondary productivity

5. ✘ Net biome productivity

Question Number : 117 Question Id : 959376117 Question Type : MCQ

Correct : 2 Wrong : 1

Which of the following are the attributes of k-selection?

- 1) Population size is constant in time
- 2) Competition is keen
- 3) Many offsprings are produced
- 4) Selection favors small body size
- 5) Length of life is long

Options :

1. ✘ 1, 2 and 3

2. ✘ 2, 3 and 4

3. ✓ 1, 2 and 5

4. ✘ 1, 4 and 5

5. ✘ 2, 4 and 5

Question Number : 117 Question Id : 959376117 Question Type : MCQ

Correct : 2 Wrong : 1

Which of the following are the attributes of k-selection?

- 1) Population size is constant in time
- 2) Competition is keen
- 3) Many offsprings are produced
- 4) Selection favors small body size
- 5) Length of life is long

Options :

1. ✘ 1, 2 and 3

2. ✘ 2, 3 and 4

3. ✓ 1, 2 and 5

4. ✘ 1, 4 and 5

5. ✘ 2, 4 and 5

Question Number : 118 Question Id : 959376118 Question Type : MCQ

Correct : 2 Wrong : 1

According to the concept of competitive exclusion:

Options :

1. ✘ Two species cannot coexist in the same habitat

2. ✘ Extinction is the only possible results of competitive interaction

3. ✘ Intraspecific competition results in the success of the best adapted individuals

4. ✘ Emigration is the only possible results of competitive interaction

5. ✓ Two species cannot share the same niche in a habitat

Question Number : 118 Question Id : 959376118 Question Type : MCQ

Correct : 2 Wrong : 1

According to the concept of competitive exclusion:

Options :

1. ✘ Two species cannot coexist in the same habitat

2. ✘ Extinction is the only possible results of competitive interaction

3. ✘ Intraspecific competition results in the success of the best adapted individuals

4. ✘ Emigration is the only possible results of competitive interaction

5. ✓ Two species cannot share the same niche in a habitat

Question Number : 119 Question Id : 959376119 Question Type : MCQ

Correct : 2 Wrong : 1

Morphological differences that enhance ecological separation may arise by an evolutionary process termed:

Options :

1. ✓ Character displacement
2. ✗ Exploitation competition
3. ✗ Neutralism
4. ✗ Allelopathy
5. ✗ Interference competition

Question Number : 119 Question Id : 959376119 Question Type : MCQ

Correct : 2 Wrong : 1

Morphological differences that enhance ecological separation may arise by an evolutionary process termed:

Options :

1. ✓ Character displacement
2. ✗ Exploitation competition
3. ✗ Neutralism
4. ✗ Allelopathy
5. ✗ Interference competition

Question Number : 120 Question Id : 959376120 Question Type : MCQ

Correct : 2 Wrong : 1

Match the following:

<u>Column A</u>	<u>Column B</u>
1) Meroplankton (P)	organisms which dig into the substrate or construct tubes or burrows
2) Epifauna (Q)	organisms whose entire life cycle is planktonic
3) Holoplankton (R)	organisms living on surface, either attached or moving freely about
4) Infauna (S)	seasonal organisms that grow out of planktonic phase

Options :

1. ✗ 1-P, 2-R, 3-Q, 4-S
2. ✗ 1-S, 2-P, 3-R, 4-Q
3. ✗ 1-S, 2-R, 3-P, 4-Q
4. ✓ 1-S, 2-R, 3-Q, 4-P
5. ✗ 1-R, 2-S, 3-Q, 4-P

Question Number : 120 Question Id : 959376120 Question Type : MCQ

Correct : 2 Wrong : 1

Match the following:

<u>Column A</u>	<u>Column B</u>
1) Meroplankton (P)	organisms which dig into the substrate or construct tubes or burrows
2) Epifauna (Q)	organisms whose entire life cycle is planktonic
3) Holoplankton (R)	organisms living on surface, either attached or moving freely about
4) Infauna (S)	seasonal organisms that grow out of planktonic phase

Options :

1. ✗ 1-P, 2-R, 3-Q, 4-S
2. ✗ 1-S, 2-P, 3-R, 4-Q
3. ✗ 1-S, 2-R, 3-P, 4-Q
4. ✓ 1-S, 2-R, 3-Q, 4-P
5. ✗ 1-R, 2-S, 3-Q, 4-P

Question Number : 121 Question Id : 959376121 Question Type : MCQ

Correct : 2 Wrong : 1

Lamark wrote which of the following book?

Options :

1. ✓ Philosophie Zoologique
2. ✗ Origin
3. ✗ Principles of Geology
4. ✗ Natural Theology
5. ✗ The Wisdom of God Manifested in the Works of the Creation

Question Number : 121 Question Id : 959376121 Question Type : MCQ

Correct : 2 Wrong : 1

Lamark wrote which of the following book?

Options :

1. ✓ Philosophie Zoologique
2. ✗ Origin
3. ✗ Principles of Geology
4. ✗ Natural Theology
5. ✗ The Wisdom of God Manifested in the Works of the Creation

Question Number : 122 Question Id : 959376122 Question Type : MCQ

Correct : 2 Wrong : 1

Which of the following statements are true regarding natural selection?

- 1) It is the differential reproduction of genetically distinct individuals or genotypes within a population.
- 2) It is predicted on the availability of genetic variation among individuals in characters related to reproduction.
- 3) It can occur in a population that consists of individuals that do not differ from one another in traits like mortality, fecundity, fertility etc.
- 4) Mere change in allele frequencies from generation to generation does not necessarily indicate that natural selection is at work.

Options :

1. ✘ 1, 2, 3
2. ✘ 1, 2
3. ✘ 2, 3
4. ✓ 1, 2, 4
5. ✘ 1, 4

Question Number : 122 Question Id : 959376122 Question Type : MCQ

Correct : 2 Wrong : 1

Which of the following statements are true regarding natural selection?

- 1) It is the differential reproduction of genetically distinct individuals or genotypes within a population.
- 2) It is predicted on the availability of genetic variation among individuals in characters related to reproduction.
- 3) It can occur in a population that consists of individuals that do not differ from one another in traits like mortality, fecundity, fertility etc.
- 4) Mere change in allele frequencies from generation to generation does not necessarily indicate that natural selection is at work.

Options :

1. ✘ 1, 2, 3
2. ✘ 1, 2
3. ✘ 2, 3
4. ✓ 1, 2, 4
5. ✘ 1, 4

Question Number : 123 Question Id : 959376123 Question Type : MCQ

Correct : 2 Wrong : 1

Oldest known hominine species is:

Options :

1. ✘ *Australopithecus afarensis*
2. ✘ *Australopithecus africanus*

- 3.  *Homo habilis*
- 4.  *Homo sapiens*
- 5.  *Homo erectus*

Question Number : 123 Question Id : 959376123 Question Type : MCQ

Correct : 2 Wrong : 1

Oldest known hominine species is:

Options :

- 1.  *Australopithecus afarensis*
- 2.  *Australopithecus africanus*
- 3.  *Homo habilis*
- 4.  *Homo sapiens*
- 5.  *Homo erectus*

Question Number : 124 Question Id : 959376124 Question Type : MCQ

Correct : 2 Wrong : 1

The most likely sequence for the biological evolution of life is:

Options :

- 1.  Aerobic prokaryotes- photosynthetic prokaryotes- anaerobic prokaryotes- eukaryotes
- 2.  Photosynthetic prokaryotes- anaerobic prokaryotes- aerobic prokaryotes- eukaryotes
- 3.  Anaerobic prokaryotes- photosynthetic prokaryotes- aerobic prokaryotes- eukaryotes
- 4.  Aerobic prokaryotes- eukaryotes- anaerobic prokaryotes- photosynthetic prokaryotes
- 5.  Anaerobic prokaryotes- aerobic prokaryotes- photosynthetic prokaryotes- eukaryotes

Question Number : 124 Question Id : 959376124 Question Type : MCQ

Correct : 2 Wrong : 1

The most likely sequence for the biological evolution of life is:

Options :

- 1.  Aerobic prokaryotes- photosynthetic prokaryotes- anaerobic prokaryotes- eukaryotes
- 2.  Photosynthetic prokaryotes- anaerobic prokaryotes- aerobic prokaryotes- eukaryotes
- 3.  Anaerobic prokaryotes- photosynthetic prokaryotes- aerobic prokaryotes- eukaryotes
- 4.  Aerobic prokaryotes- eukaryotes- anaerobic prokaryotes- photosynthetic prokaryotes
- 5.  Anaerobic prokaryotes- aerobic prokaryotes- photosynthetic prokaryotes- eukaryotes

Question Number : 125 Question Id : 959376125 Question Type : MCQ

Correct : 2 Wrong : 1

Who proposed the concept of genetic drift?

Options :

- 1.  Charles Darwin

2. ✘ Alfred Russel Wallace
3. ✘ Ronal Fisher
4. ✓ Sewall Wright
5. ✘ Jean-Baptiste Lamarck

Question Number : 125 Question Id : 959376125 Question Type : MCQ

Correct : 2 Wrong : 1

Who proposed the concept of genetic drift?

Options :

1. ✘ Charles Darwin
2. ✘ Alfred Russel Wallace
3. ✘ Ronal Fisher
4. ✓ Sewall Wright
5. ✘ Jean-Baptiste Lamarck

Question Number : 126 Question Id : 959376126 Question Type : MCQ

Correct : 2 Wrong : 1

First amphibian was reported in:

Options :

1. ✓ Devonian period of Paleozoic era
2. ✘ Devonian period of Mesozoic era
3. ✘ Carboniferous period of Paleozoic era
4. ✘ Devonian period of Precambrian era
5. ✘ Carboniferous period of Mesozoic era

Question Number : 126 Question Id : 959376126 Question Type : MCQ

Correct : 2 Wrong : 1

First amphibian was reported in:

Options :

1. ✓ Devonian period of Paleozoic era
2. ✘ Devonian period of Mesozoic era
3. ✘ Carboniferous period of Paleozoic era
4. ✘ Devonian period of Precambrian era
5. ✘ Carboniferous period of Mesozoic era

Question Number : 127 Question Id : 959376127 Question Type : MCQ

Correct : 2 Wrong : 1

A. I. Oparin postulated that colloidal bodies arose in the seas during the primordial stage of the earth. He referred to them as :

Options :

1. ✘ Protobionts
2. ✓ Coacervate
3. ✘ Microsphere
4. ✘ Spherules
5. ✘ Liposomes

Question Number : 127 Question Id : 959376127 Question Type : MCQ

Correct : 2 Wrong : 1

A. I. Oparin postulated that colloidal bodies arose in the seas during the primordial stage of the earth. He referred to them as :

Options :

1. ✘ Protobionts
2. ✓ Coacervate
3. ✘ Microsphere
4. ✘ Spherules
5. ✘ Liposomes

Question Number : 128 Question Id : 959376128 Question Type : MCQ

Correct : 2 Wrong : 1

Consider the following statements. Which of them are correct?

- 1) Wings of insects and birds are homologous organs.
- 2) Wings of insects and bats are analogous organs.
- 3) Wings of insects and birds are analogous organs.
- 4) Wings of birds and bats are homologous organs.

Options :

1. ✘ 1 and 2
2. ✓ 2, 3 and 4
3. ✘ 1 and 4
4. ✘ 1, 2 and 4
5. ✘ 2 and 3

Question Number : 128 Question Id : 959376128 Question Type : MCQ

Correct : 2 Wrong : 1

Consider the following statements. Which of them are correct?

- 1) Wings of insects and birds are homologous organs.
- 2) Wings of insects and bats are analogous organs.
- 3) Wings of insects and birds are analogous organs.
- 4) Wings of birds and bats are homologous organs.

Options :

1. ✘ 1 and 2
2. ✓ 2, 3 and 4



3. ✘ 1 and 4
4. ✘ 1, 2 and 4
5. ✘ 2 and 3

Question Number : 129 Question Id : 959376129 Question Type : MCQ

Correct : 2 Wrong : 1

Which of the following possess quadrapedal mode of locomotion?

Options :

1. ✘ Humans
2. ✘ Siamangs
3. ✘ Gibbons
4. ✘ Orangutan
5. ✓ Gorilla

Question Number : 129 Question Id : 959376129 Question Type : MCQ

Correct : 2 Wrong : 1

Which of the following possess quadrapedal mode of locomotion?

Options :

1. ✘ Humans
2. ✘ Siamangs
3. ✘ Gibbons
4. ✘ Orangutan
5. ✓ Gorilla

Question Number : 130 Question Id : 959376130 Question Type : MCQ

Correct : 2 Wrong : 1

Which of the following pairs is correct?

- 1) Sibling species- populations that share most of their characteristics but differ in few traits, inhabit different geographical or ecological area and can interbreed with one another
- 2) Subspecies- populations of genetically related organisms that are morphologically almost identical but cannot interbreed
- 3) Sympatric speciation- speciation due to establishment of barrier to interbreeding within a panmictic population, in the absence of spatial isolation
- 4) Parapatric speciation- non-establishment of reproductive isolation between adjacent populations

Options :

1. ✘ 1, 2
2. ✘ 2
3. ✓ 3
4. ✘ 3, 4
5. ✘ 1

Question Number : 130 Question Id : 959376130 Question Type : MCQ

Correct : 2 Wrong : 1

Which of the following pairs is correct?

- 1) Sibling species- populations that share most of their characteristics but differ in few traits, inhabit different geographical or ecological area and can interbreed with one another
- 2) Subspecies- populations of genetically related organisms that are morphologically almost identical but cannot interbreed
- 3) Sympatric speciation- speciation due to establishment of barrier to interbreeding within a panmictic population, in the absence of spatial isolation
- 4) Parapatric speciation- non-establishment of reproductive isolation between adjacent populations

Options :

1. ✘ 1, 2
2. ✘ 2
3. ✓ 3
4. ✘ 3, 4
5. ✘ 1

Question Number : 131 Question Id : 959376131 Question Type : MCQ

Correct : 2 Wrong : 1

Which of the following is an immortal cell line derived from human cervical cancer cells?

Options :

1. ✘ CHO
2. ✘ HEK-293
3. ✓ HeLa
4. ✘ HEP1
5. ✘ HT-29

Question Number : 131 Question Id : 959376131 Question Type : MCQ

Correct : 2 Wrong : 1

Which of the following is an immortal cell line derived from human cervical cancer cells?

Options :

1. ✘ CHO
2. ✘ HEK-293
3. ✓ HeLa
4. ✘ HEP1
5. ✘ HT-29

Question Number : 132 Question Id : 959376132 Question Type : MCQ

Correct : 2 Wrong : 1

Ti plasmids that is used as a plant vector is obtained from:

Options :

1. ✘ *Agrobacterium rhizogenes*
2. ✘ *Agrobacterium radiobacter*
3. ✓ *Agrobacterium tumefaciens*
4. ✘ *Agrobacterium albertimagni*
5. ✘ *Agrobacterium rubi*

Question Number : 132 Question Id : 959376132 Question Type : MCQ

Correct : 2 Wrong : 1

Ti plasmids that is used as a plant vector is obtained from:

Options :

1. ✘ *Agrobacterium rhizogenes*
2. ✘ *Agrobacterium radiobacter*
3. ✓ *Agrobacterium tumefaciens*
4. ✘ *Agrobacterium albertimagni*
5. ✘ *Agrobacterium rubi*

Question Number : 133 Question Id : 959376133 Question Type : MCQ

Correct : 2 Wrong : 1

Mosaic embryo is one in which:

Options :

1. ✘ All the cells carry transgene
2. ✘ No cells carry normal gene
3. ✓ Some cells carry transgene
4. ✘ All cells carry normal gene
5. ✘ No cells carry transgene

Question Number : 133 Question Id : 959376133 Question Type : MCQ

Correct : 2 Wrong : 1

Mosaic embryo is one in which:

Options :

1. ✘ All the cells carry transgene
2. ✘ No cells carry normal gene
3. ✓ Some cells carry transgene
4. ✘ All cells carry normal gene
5. ✘ No cells carry transgene

Question Number : 134 Question Id : 959376134 Question Type : MCQ

Correct : 2 Wrong : 1

A widely used degrader of lignocellulosic material is:

Options :

1.  *Phanaerochryte chrysosporium*
2.  *Bacillus subtilis*
3.  *Pseudomonas putida*
4.  *Pseudomonas denitrificans*
5.  None of the other option

Question Number : 134 Question Id : 959376134 Question Type : MCQ

Correct : 2 Wrong : 1

A widely used degrader of lignocellulosic material is:

Options :

1.  *Phanaerochryte chrysosporium*
2.  *Bacillus subtilis*
3.  *Pseudomonas putida*
4.  *Pseudomonas denitrificans*
5.  None of the other option

Question Number : 135 Question Id : 959376135 Question Type : MCQ

Correct : 2 Wrong : 1

Which of the following are the forms of bioreactors used in the fermentation technology?

- 1) Continuous stirred tank bioreactor
- 2) Loop bioreactor
- 3) Bio bioreactor
- 4) Activated sludge bioreactor

Options :

1.  1, 2 and 3
2.  1, 3 and 4
3.  2 and 4
4.  1, 2 and 4
5.  2, 3 and 4

Question Number : 135 Question Id : 959376135 Question Type : MCQ

Correct : 2 Wrong : 1

Which of the following are the forms of bioreactors used in the fermentation technology?

- 1) Continuous stirred tank bioreactor
- 2) Loop bioreactor
- 3) Bio bioreactor
- 4) Activated sludge bioreactor

Options :

1. ✘ 1, 2 and 3
2. ✘ 1, 3 and 4
3. ✘ 2 and 4
4. ✓ 1, 2 and 4
5. ✘ 2, 3 and 4

Question Number : 136 Question Id : 959376136 Question Type : MCQ

Correct : 2 Wrong : 1

Germ cell gene therapy could potentially correct a defect in:

Options :

1. ✘ Affected individual only
2. ✓ Affected individual and his or her offspring
3. ✘ Mother of the affected child
4. ✘ Siblings of the affected individual
5. ✘ Father of the affected individual

Question Number : 136 Question Id : 959376136 Question Type : MCQ

Correct : 2 Wrong : 1

Germ cell gene therapy could potentially correct a defect in:

Options :

1. ✘ Affected individual only
2. ✓ Affected individual and his or her offspring
3. ✘ Mother of the affected child
4. ✘ Siblings of the affected individual
5. ✘ Father of the affected individual

Question Number : 137 Question Id : 959376137 Question Type : MCQ

Correct : 2 Wrong : 1

Which of the following statements are true regarding application of monoclonal antibodies?

- 1) Used in cancer diagnosis and therapy
- 2) Used in diagnosis of pregnancy
- 3) Has role in prevention of immune rejection of organ transplants
- 4) Used in diagnosis of sexually transmitted diseases
- 5) Used for industrial products purification

Options :

1. ✘ 1, 2 and 3
2. ✘ 2, 3, 4 and 5

3. ✓ 1, 2, 3, 4 and 5

4. ✗ 1, 3, 4 and 5

5. ✗ 1, 2 and 5

Question Number : 137 Question Id : 959376137 Question Type : MCQ

Correct : 2 Wrong : 1

Which of the following statements are true regarding application of monoclonal antibodies?

- 1) Used in cancer diagnosis and therapy
- 2) Used in diagnosis of pregnancy
- 3) Has role in prevention of immune rejection of organ transplants
- 4) Used in diagnosis of sexually transmitted diseases
- 5) Used for industrial products purification

Options :

1. ✗ 1, 2 and 3

2. ✗ 2, 3, 4 and 5

3. ✓ 1, 2, 3, 4 and 5

4. ✗ 1, 3, 4 and 5

5. ✗ 1, 2 and 5

Question Number : 138 Question Id : 959376138 Question Type : MCQ

Correct : 2 Wrong : 1

Match the following

Column A

Column B

1) Alpha diversity	P) diversity of landscape-scale areas
2) Pattern diversity	Q) within-habitat or within-community diversity
3) Gamma diversity	R) total number of species present
4) Richness	S) between-habitat diversity
5) Beta diversity	T) which results from zonation, stratification, periodicity, patchiness, food webs and other arrangements

Options :

1. ✗ 1-T, 2-Q, 3-P, 4-R, 5-S

2. ✗ 1-Q, 3-P, 2-T, 4-S, 5-R

3. ✓ 1-Q, 2-T, 3-P, 4-R, 5-S

4. ✗ 1-T, 2-S, 3-P, 4-S, 5-R

5. ✗ 1-Q, 2-S, 3-P, 4-R, 5-T

Question Number : 138 Question Id : 959376138 Question Type : MCQ

Correct : 2 Wrong : 1

Match the following

Column A	Column B
1) Alpha diversity	P) diversity of landscape-scale areas
2) Pattern diversity	Q) within-habitat or within-community diversity
3) Gamma diversity	R) total number of species present
4) Richness	S) between-habitat diversity
5) Beta diversity	T) which results from zonation, stratification, periodicity, patchiness, food webs and other arrangements

Options :

1. ✗ 1-T, 2-Q, 3-P, 4-R, 5-S
2. ✗ 1-Q, 3-P, 2-T, 4-S, 5-R
3. ✓ 1-Q, 2-T, 3-P, 4-R, 5-S
4. ✗ 1-T, 2-S, 3-P, 4-S, 5-R
5. ✗ 1-Q, 2-S, 3-P, 4-R, 5-T

Question Number : 139 Question Id : 959376139 Question Type : MCQ

Correct : 2 Wrong : 1

Heterosis is:

Options :

1. ✗ Appearance of spontaneous mutations
2. ✗ Induction of mutations
3. ✗ Mixture of two or more traits
4. ✗ Inferiority of hybrids over their parents
5. ✓ Superiority of hybrids over their parents

Question Number : 139 Question Id : 959376139 Question Type : MCQ

Correct : 2 Wrong : 1

Heterosis is:

Options :

1. ✗ Appearance of spontaneous mutations
2. ✗ Induction of mutations
3. ✗ Mixture of two or more traits
4. ✗ Inferiority of hybrids over their parents
5. ✓ Superiority of hybrids over their parents

Question Number : 140 Question Id : 959376140 Question Type : MCQ

Correct : 2 Wrong : 1

Who coined the term genomics?

Options :

1. ❌ Joachim Messing
2. ✓ Thomas Roderick
3. ❌ Frederick Sanger
4. ❌ Robert Holley
5. ❌ Ray Wu

Question Number : 140 Question Id : 959376140 Question Type : MCQ

Correct : 2 Wrong : 1

Who coined the term genomics?

Options :

1. ❌ Joachim Messing
2. ✓ Thomas Roderick
3. ❌ Frederick Sanger
4. ❌ Robert Holley
5. ❌ Ray Wu

Question Number : 141 Question Id : 959376141 Question Type : MCQ

Correct : 2 Wrong : 1

In agarose gel electrophoresis:

Options :

1. ❌ DNA migrates towards the negative electrode
2. ❌ Supercoiled plasmids migrate slower than their nicked counterparts
3. ❌ Bromophenol blue can be used to visualize DNA
4. ❌ Larger molecules migrate faster than smaller molecules
5. ✓ Ethidium bromide can be used to visualize DNA

Question Number : 141 Question Id : 959376141 Question Type : MCQ

Correct : 2 Wrong : 1

In agarose gel electrophoresis:

Options :

1. ❌ DNA migrates towards the negative electrode
2. ❌ Supercoiled plasmids migrate slower than their nicked counterparts
3. ❌ Bromophenol blue can be used to visualize DNA
4. ❌ Larger molecules migrate faster than smaller molecules
5. ✓ Ethidium bromide can be used to visualize DNA

Question Number : 142 Question Id : 959376142 Question Type : MCQ

Correct : 2 Wrong : 1

T 4 Polynucleotide kinase is used for:

Options :

1. ✘ Labeling 3' ends of DNA
2. ✓ Labeling 5' ends of DNA
3. ✘ Labeling both 3' and 5' ends of DNA
4. ✘ Creating blunt ends of DNA
5. ✘ Dephosphorylation of DNA

Question Number : 142 Question Id : 959376142 Question Type : MCQ

Correct : 2 Wrong : 1

T 4 Polynucleotide kinase is used for:

Options :

1. ✘ Labeling 3' ends of DNA
2. ✓ Labeling 5' ends of DNA
3. ✘ Labeling both 3' and 5' ends of DNA
4. ✘ Creating blunt ends of DNA
5. ✘ Dephosphorylation of DNA

Question Number : 143 Question Id : 959376143 Question Type : MCQ

Correct : 2 Wrong : 1

The substrate for restriction enzyme is:

Options :

1. ✘ Single stranded RNA
2. ✘ Partially double stranded DNA
3. ✘ Cell wall proteins
4. ✓ Double stranded DNA
5. ✘ Single stranded DNA

Question Number : 143 Question Id : 959376143 Question Type : MCQ

Correct : 2 Wrong : 1

The substrate for restriction enzyme is:

Options :

1. ✘ Single stranded RNA
2. ✘ Partially double stranded DNA
3. ✘ Cell wall proteins
4. ✓ Double stranded DNA
5. ✘ Single stranded DNA

Question Number : 144 Question Id : 959376144 Question Type : MCQ

Correct : 2 Wrong : 1

Which of the following is a sequence alignment tool provided by NCBI?

Options :

1. ✗ Chime
2. ✓ BLAST
3. ✗ FASTA
4. ✗ Clustal W
5. ✗ Dismol

Question Number : 144 Question Id : 959376144 Question Type : MCQ

Correct : 2 Wrong : 1

Which of the following is a sequence alignment tool provided by NCBI?

Options :

1. ✗ Chime
2. ✓ BLAST
3. ✗ FASTA
4. ✗ Clustal W
5. ✗ Dismol

Question Number : 145 Question Id : 959376145 Question Type : MCQ

Correct : 2 Wrong : 1

An analysis of chromosomal DNA, using the Southern blot technique, involves the following five major steps:

- 1) Autoradiography
- 2) Blotting
- 3) Cleavage
- 4) Electrophoresis
- 5) Hybridization

Which of the following sequences of steps best illustrates this technique?

Options :

1. ✗ 1, 2, 3, 4, 5
2. ✗ 1, 3, 2, 4, 5
3. ✗ 3, 5, 2, 4, 1
4. ✗ 3, 2, 4, 5, 1
5. ✓ 3, 4, 2, 5, 1

Question Number : 145 Question Id : 959376145 Question Type : MCQ

Correct : 2 Wrong : 1

An analysis of chromosomal DNA, using the Southern blot technique, involves the following five major steps:

- 1) Autoradiography
- 2) Blotting
- 3) Cleavage
- 4) Electrophoresis
- 5) Hybridization

Which of the following sequences of steps best illustrates this technique?

Options :

1. ✗ 1, 2, 3, 4, 5
2. ✗ 1, 3, 2, 4, 5
3. ✗ 3, 5, 2, 4, 1
4. ✗ 3, 2, 4, 5, 1
5. ✓ 3, 4, 2, 5, 1

Question Number : 146 Question Id : 959376146 Question Type : MCQ

Correct : 2 Wrong : 1

There are two different ways to determine the nucleotide sequence of a nucleic acid: the chemical sequencing \_\_\_\_\_(1)\_\_\_\_\_ method and the enzymatic sequencing \_\_\_\_\_(2)\_\_\_\_\_ method.

(1) (2)

Options :

1. ✗ Sanger	Maxam-Gilbert
2. ✗ Maxam-Gilbert	Edman degradation
3. ✗ Edman degradation	Maxam-Gilbert
4. ✓ Maxam-Gilbert	Sanger
5. ✗ Sanger	Edman degradation

Question Number : 146 Question Id : 959376146 Question Type : MCQ

Correct : 2 Wrong : 1

There are two different ways to determine the nucleotide sequence of a nucleic acid: the chemical sequencing \_\_\_\_\_(1)\_\_\_\_\_ method and the enzymatic sequencing \_\_\_\_\_(2)\_\_\_\_\_ method.

(1) (2)

Options :

1. ✗ Sanger	Maxam-Gilbert
2. ✗ Maxam-Gilbert	Edman degradation
3. ✗ Edman degradation	Maxam-Gilbert
4. ✓ Maxam-Gilbert	Sanger
5. ✗ Sanger	Edman degradation

Question Number : 147 Question Id : 959376147 Question Type : MCQ

Correct : 2 Wrong : 1

The term cDNA library means:

Options :

1. ❌ Collection of cDNA clones by an individual researcher
2. ❌ Compilation of cDNA sequences in the database
3. ❌ Consists of the total chromosomal DNA of an organism
4. ✓ Pool of cDNA generated from a specific tissue inserted into an appropriate vector that can be used as a source of the cDNA of interest
5. ❌ It is manual for cDNA research:

Question Number : 147 Question Id : 959376147 Question Type : MCQ

Correct : 2 Wrong : 1

The term cDNA library means:

Options :

1. ❌ Collection of cDNA clones by an individual researcher
2. ❌ Compilation of cDNA sequences in the database
3. ❌ Consists of the total chromosomal DNA of an organism
4. ✓ Pool of cDNA generated from a specific tissue inserted into an appropriate vector that can be used as a source of the cDNA of interest
5. ❌ It is manual for cDNA research:

Question Number : 148 Question Id : 959376148 Question Type : MCQ

Correct : 2 Wrong : 1

Reverse transcriptase is a:

Options :

1. ❌ DNA-dependent RNA polymerase
2. ❌ RNA-dependent RNA polymerase
3. ❌ DNA-dependent DNA polymerase
4. ❌ tRNA-dependent DNA polymerase
5. ✓ RNA-dependent DNA polymerase

Question Number : 148 Question Id : 959376148 Question Type : MCQ

Correct : 2 Wrong : 1

Reverse transcriptase is a:

Options :

1. ❌ DNA-dependent RNA polymerase
2. ❌ RNA-dependent RNA polymerase



- 3. ✘ DNA-dependent DNA polymerase
- 4. ✘ tRNA-dependent DNA polymerase
- 5. ✓ RNA-dependent DNA polymerase

Question Number : 149 Question Id : 959376149 Question Type : MCQ

Correct : 2 Wrong : 1

A cloning vector consisting of *cos* site inserted in a plasmid, used to clone DNA fragments of lambda phage is:

Options :

- 1. ✘ Phagemid
- 2. ✓ Cosmid
- 3. ✘ Plasmid
- 4. ✘ YAC
- 5. ✘ BAC

Question Number : 149 Question Id : 959376149 Question Type : MCQ

Correct : 2 Wrong : 1

A cloning vector consisting of *cos* site inserted in a plasmid, used to clone DNA fragments of lambda phage is:

Options :

- 1. ✘ Phagemid
- 2. ✓ Cosmid
- 3. ✘ Plasmid
- 4. ✘ YAC
- 5. ✘ BAC

Question Number : 150 Question Id : 959376150 Question Type : MCQ

Correct : 2 Wrong : 1

Microscope used for viewing unstained cells growing in tissue culture is:

Options :

- 1. ✘ Light microscope
- 2. ✘ Fluorescent microscope
- 3. ✓ Phase contrast microscope
- 4. ✘ Epifluorescent microscope
- 5. ✘ Laser scanning confocal microscope

Question Number : 150 Question Id : 959376150 Question Type : MCQ

Correct : 2 Wrong : 1

Microscope used for viewing unstained cells growing in tissue culture is:

Options :

1. ✘ Light microscope
2. ✘ Fluorescent microscope
3. ✓ Phase contrast microscope
4. ✘ Epifluorescent microscope
5. ✘ Laser scanning confocal microscope



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