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# **CGPSC SO**

**Previous Year Paper  
(Biochemistry)  
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:** Biochemistry 14th Feb 2016 Actual  
**Subject Name:** Biochemistry  
**Duration:** 180

	Biochemistry
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 : 959376601 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 : 959376601 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 : 959376602 Question Type : MCQ

Correct : 2 Wrong : 1

Where is Deorani-Jethani temple in Chattisgarh situated?

Options :

1. ✖ Ratanpur
2. ✖ Kanker
3. ✖ Dantewada
4. ✔ Talagaon
5. ✖ None of the other option

Question Number : 2 Question Id : 959376602 Question Type : MCQ

Correct : 2 Wrong : 1

देवरानी जेठानी मंदिर छत्तीसगढ़ में कहाँ विद्यमान है?

Options :

1. ✖ रतनपुर
2. ✖ कांकेर
3. ✖ दंतेवाड़ा
4. ✔ तालागांव
5. ✖ अन्य विकल्पों में से कोई नहीं

Question Number : 3 Question Id : 959376603 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 : 959376603 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 : 959376604 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 : 959376604 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 : 959376605 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 : 959376605 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. ✖ कोई विद्रोह 1859 - जुग्गा डोरला
4. ✔ मुरिया विद्रोह 1876 - झाड़ा सिरहा
5. ✖ बस्तर विद्रोह 1910 - दीनानाथ

Question Number : 6 Question Id : 959376606 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 - Parsojji Bhonsale
3. ✔ Captain Blunt - Vyanko Ji Bhonsale
4. ✖ Charles grant - Appa Saheb Bhonsale
5. ✖ Crawford - Purshoji Bhonsale

Question Number : 6 Question Id : 959376606 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 ब्लंट - व्यंकोजी भोंसले
4. ✖ चार्ल्स ग्रांट - अप्पासाहब भोंसले
5. ✖ क्राफर्ड - पुरषोजी भोंसले

Question Number : 7 Question Id : 959376607 Question Type : MCQ

Correct : 2 Wrong : 1

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

Options :

1. ✖ Prithvideveshwar 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. ✖ Dudhadhari Math, Raipur - Jai Singh Dev

Question Number : 7 Question Id : 959376607 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 : 959376608 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 : 959376608 Question Type : MCQ

Correct : 2 Wrong : 1

छत्तीसगढ़ प्रदेश में सबसे उंचा पाट है-

Options :

1. ✖ मैनपाट
2. ✖ जारंगपाट

3. ✖ पेन्ड्रापाट
4. ✔ सामरीपाट
5. ✖ अन्य विकल्पों में से कोई नहीं

Question Number : 9 Question Id : 959376609 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 : 959376609 Question Type : MCQ

Correct : 2 Wrong : 1

छत्तीसगढ़ राज्य निम्नलिखित में से किस गोलार्ध में स्थित है?

Options :

1. ✔ उत्तरी और पूर्वी
2. ✖ दक्षिणी और पूर्वी
3. ✖ उत्तरी और पश्चिमी
4. ✖ दक्षिणी और पश्चिमी
5. ✖ अन्य विकल्पों में से कोई नहीं

Question Number : 10 Question Id : 959376610 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 : 959376610 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 : 959376611 Question Type : MCQ

Correct : 2 Wrong : 1

The cave of Kutumbsar is in:

Options :

1. ✖ Janjgir
2. ✖ Raigarh
3. ✔ Bastar
4. ✖ Mahasamund
5. ✖ None of the other option

Question Number : 11 Question Id : 959376611 Question Type : MCQ

Correct : 2 Wrong : 1

कुटुम्बसर की गुफा है-

Options :

1. ✖ जांजगीर
2. ✖ रायगढ़
3. ✔ बस्तर
4. ✖ महासमुंद
5. ✖ अन्य विकल्पों में से कोई नहीं

Question Number : 12 Question Id : 959376612 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 : 959376612 Question Type : MCQ

Correct : 2 Wrong : 1

निम्नलिखित जिलों में कौन क्षेत्रफल में सबसे बड़ा है?

Options :

1. ✖ रायपुर
2. ✔ कोंडागांव
3. ✖ बेमेतरा
4. ✖ बालोद
5. ✖ अन्य विकल्पों में से कोई नहीं

Question Number : 13 Question Id : 959376613 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 : 959376613 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 : 959376614 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 : 959376614 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 : 959376615 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 : 959376615 Question Type : MCQ

Correct : 2 Wrong : 1

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

Options :

- 1. ✖ नेशनल ई. गवर्नेंस अवार्ड
- 2. ✖ ई. इंडिया अवार्ड
- 3. ✖ सी. एस आई. ई. गवर्नेंस अवार्ड
- 4. ✔ सी. एफ. आई. ई. गवर्नेंस अवार्ड

5. ✖ अन्य विकल्पों में से कोई नहीं

Question Number : 16 Question Id : 959376616 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 : 959376616 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 : 959376617 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 : 959376617 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 : 959376618 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 : 959376618 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 : 959376619 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 : 959376619 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-कौटा
3. ✖ सरगुजा
4. ✖ पांनाबरस
5. ✖ अन्य विकल्पों में से कोई नहीं

Question Number : 20 Question Id : 959376620 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 : 959376620 Question Type : MCQ

Correct : 2 Wrong : 1

वर्ष 2013-14 में 2004-05 की स्थिर कीमती 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 : 959376621 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 : 959376621 Question Type : MCQ

Correct : 2 Wrong : 1

निविदत 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 : 959376622 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 : 959376622 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 : 959376623 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 : 959376623 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 : 959376624 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 : 959376624 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 : 959376625 Question Type : MCQ

Correct : 2 Wrong : 1

Who said, "If our independence is to reflected 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 : 959376625 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 वाजपेयी

Question Number : 26 Question Id : 959376626 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 : 959376626 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 : 959376627 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 : 959376627 Question Type : MCQ

Correct : 2 Wrong : 1

छत्तीसगढ़ में औद्योगिक दृष्टि 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 : 959376628 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 : 959376628 Question Type : MCQ

Correct : 2 Wrong : 1

छत्तीसगढ़ में कत्था उद्योग किस जिले में स्थित है?

Options :

1. ✖ बस्तर
2. ✔ सरगुजा
3. ✖ दन्तेवाड़ा
4. ✖ जशपुर
5. ✖ अन्य विकल्पों में से कोई नहीं

Question Number : 29 Question Id : 959376629 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 : 959376629 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. ✖ दिवतीय
2. ✔ प्रथम
3. ✖ चतुर्थ
4. ✖ तृतीय
5. ✖ अन्य विकल्पों में से कोई नहीं

Question Number : 30 Question Id : 959376630 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 : 959376630 Question Type : MCQ

Correct : 2 Wrong : 1

सिकासार परियोजना किस जिले में स्थित है?

Options :

1. ✖ महासमुंद
2. ✖ धमतरी
3. ✖ कांकेर
4. ✖ बालोद
5. ✔ अन्य विकल्पों में से कोई नहीं

Question Number : 31 Question Id : 959376631 Question Type : MCQ

Correct : 2 Wrong : 1

In which district there is no coal deposit?

Options :

1. ✔ Bastar
2. ✖ Korba
3. ✖ Korla

- 4. ✖ Raigarh
- 5. ✖ None of the other option

Question Number : 31 Question Id : 959376631 Question Type : MCQ  
Correct : 2 Wrong : 1

किस जिले 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 : 959376632 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 : 959376632 Question Type : MCQ  
Correct : 2 Wrong : 1

निम्नलिखित में कौन-सा गैरपरम्परागत उर्जा स्रोत नहीं है?

Options :

- 1. ✔ परमाणु उर्जा
- 2. ✖ सौर उर्जा
- 3. ✖ पवन उर्जा
- 4. ✖ ज्वारीय उर्जा
- 5. ✖ अन्य विकल्पों में से कोई नहीं

Question Number : 33 Question Id : 959376633 Question Type : MCQ  
Correct : 2 Wrong : 1

Who is the writer of the book "Chhattisgarhi Bhasha Ka Udvikas"?

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 : 959376633 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 : 959376634 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 : 959376634 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 : 959376635 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 : 959376635 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 : 959376636 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 : 959376636 Question Type : MCQ

Correct : 2 Wrong : 1

छत्तीसगढ़ में बमलाई देवी का मंदिर कहाँ है?

Options :

1. ✖ खैरागढ़
2. ✔ डोंगरगढ़
3. ✖ रायपुर
4. ✖ रतनपुर
5. ✖ अन्य विकल्पों में से कोई नहीं

Question Number : 37 Question Id : 959376637 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 : 959376637 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 : 959376638 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 : 959376638 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 : 959376639 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 : 959376639 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 : 959376640 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 : 959376640 Question Type : MCQ  
Correct : 2 Wrong : 1

महानदी का उद्गम कहाँ है?

Options :

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

Question Number : 41 Question Id : 959376641 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 : 959376641 Question Type : MCQ  
Correct : 2 Wrong : 1

"जोगीमारा" क्यों प्रसिद्ध है?

Options :

- 1. ❌ मूर्ती कला
- 2. ❌ कोसा शिल्प
- 3. ❌ ढोकला शिल्प
- 4. ❌ काष्ठ शिल्प
- 5. ✅ अन्य विकल्पों में से कोई नहीं

Question Number : 42 Question Id : 959376642 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 : 959376642 Question Type : MCQ

Correct : 2 Wrong : 1

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

Options :

1. ❌ लाई (धान की लाई)
2. ❌ दांत
3. ✅ चंदैनी (तारे)
4. ❌ मुरा (मुरमुरा)
5. ❌ अन्य विकल्पों में से कोई नहीं

Question Number : 43 Question Id : 959376643 Question Type : MCQ

Correct : 2 Wrong : 1

What is the dialect of “Bhataranat”?

Options :

1. ❌ Halbi
2. ❌ Gondhi
3. ❌ Gadbi
4. ❌ Chhattisgarhi
5. ✅ None of the other option

Question Number : 43 Question Id : 959376643 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 : 959376644 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 : 959376644 Question Type : MCQ

Correct : 2 Wrong : 1

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

Options :

1. ✓ निचचट 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 : 959376645 Question Type : MCQ

Correct : 2 Wrong : 1

Who inaugurated “Purkhouti Mukangan” 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 : 959376645 Question Type : MCQ

Correct : 2 Wrong : 1

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

Options :

1. ✗ श्रीमती प्रतिभा देवी सिंह पाटिल

2. ✓ डॉ. ए. पी. जे. अब्दुल कलाम
3. ✗ श्री. प्रणब मुखर्जी
4. ✗ श्री. के. आर. नारायणन
5. ✗ अन्य विकल्पों में से कोई नहीं

Question Number : 46 Question Id : 959376646 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 : 959376646 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 : 959376647 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 : 959376647 Question Type : MCQ

Correct : 2 Wrong : 1

रायपुर स्थित सरदार वल्लभ 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 : 959376648 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 : 959376648 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. ✖ पढ़ाओ, पढ़ाओ, स्कूल जाओ अभियान
4. ✔ छत्तीसगढ़ सूचना शक्ति योजना
5. ✖ अन्य विकल्पों में से कोई नहीं

Question Number : 49 Question Id : 959376649 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 : 959376649 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 : 959376650 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 Pambhoi
5. ✗ None of the other option

Question Number : 50 Question Id : 959376650 Question Type : MCQ

Correct : 2 Wrong : 1

छत्तीसगढ़ राजभाषा के वर्तमान अध्यक्ष कौन हैं?

Options :

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



5. ✖ अन्य विकल्पों में से कोई नहीं

Mandatory or Optional:

Biochemistry

Mandatory

Question Number : 51 Question Id : 959376651 Question Type : MCQ

Correct : 2 Wrong : 1

Which pair of amino acids have the highest absorbance at 280 nm?

Options :

1. ✖ Thr and His
2. ✖ Phe and Pro
3. ✖ Val and Leu
4. ✔ Trp and Tyr
5. ✖ Tyr and Gly

Question Number : 51 Question Id : 959376651 Question Type : MCQ

Correct : 2 Wrong : 1

Which pair of amino acids have the highest absorbance at 280 nm?

Options :

1. ✖ Thr and His
2. ✖ Phe and Pro
3. ✖ Val and Leu
4. ✔ Trp and Tyr
5. ✖ Tyr and Gly

Question Number : 52 Question Id : 959376652 Question Type : MCQ

Correct : 2 Wrong : 1

Pathogenicity of Pneumococcus in the transformation experiment carried out by Griffith was due to:

Options :

1. ✖ DNA and RNA
2. ✖ DNA
3. ✔ polysaccharide
4. ✖ protein
5. ✖ RNA

Question Number : 52 Question Id : 959376652 Question Type : MCQ

Correct : 2 Wrong : 1

Pathogenicity of Pneumococcus in the transformation experiment carried out by Griffith was due to:

Options :

1. ✗ DNA and RNA
2. ✗ DNA
3. ✓ polysaccharide
4. ✗ protein
5. ✗ RNA

Question Number : 53 Question Id : 959376653 Question Type : MCQ

Correct : 2 Wrong : 1

Cellulose is indigestible by humans due to the lack of the enzyme that hydrolyzes:

Options :

1. ✗  $\alpha$  -1,4 glycosidic bonds
2. ✗  $\alpha$  -1,6 glycosidic bonds
3. ✓  $\beta$  -1,4 glycosidic bonds
4. ✗ Long chain polysaccharides
5. ✗  $\beta$  -1,2 glycosidic bonds

Question Number : 53 Question Id : 959376653 Question Type : MCQ

Correct : 2 Wrong : 1

Cellulose is indigestible by humans due to the lack of the enzyme that hydrolyzes:

Options :

1. ✗  $\alpha$  -1,4 glycosidic bonds
2. ✗  $\alpha$  -1,6 glycosidic bonds
3. ✓  $\beta$  -1,4 glycosidic bonds
4. ✗ Long chain polysaccharides
5. ✗  $\beta$  -1,2 glycosidic bonds

Question Number : 54 Question Id : 959376654 Question Type : MCQ

Correct : 2 Wrong : 1

Prostaglandins are synthesized from:

Options :

1. ✗ Linoleic acid
2. ✓ Arachidonic acid
3. ✗ Oleic acid
4. ✗ Linolenic acid

5. ✖ Palmitic acid

Question Number : 54 Question Id : 959376654 Question Type : MCQ

Correct : 2 Wrong : 1

Prostaglandins are synthesized from:

Options :

1. ✖ Linoleic acid
2. ✔ Arachidonic acid
3. ✖ Oleic acid
4. ✖ Linolenic acid
5. ✖ Palmitic acid

Question Number : 55 Question Id : 959376655 Question Type : MCQ

Correct : 2 Wrong : 1

Which of the following cofactor is required for conversion of proline residues into hydroxyproline in procollagen?

Options :

1. ✖ TPP
2. ✖ Biotin
3. ✖ Niacin
4. ✖ pantothenate
5. ✔ ascorbic acid

Question Number : 55 Question Id : 959376655 Question Type : MCQ

Correct : 2 Wrong : 1

Which of the following cofactor is required for conversion of proline residues into hydroxyproline in procollagen?

Options :

1. ✖ TPP
2. ✖ Biotin
3. ✖ Niacin
4. ✖ pantothenate
5. ✔ ascorbic acid

Question Number : 56 Question Id : 959376656 Question Type : MCQ

Correct : 2 Wrong : 1

Rate limiting enzyme in catecholamine biosynthesis:

Options :

1. ✔ tyrosine hydroxylase
2. ✖ dopa decarboxylase



- 3. ✖ dopamine  $\beta$ -hydroxylase
- 4. ✖ 24-hydroxylase
- 5. ✖ 25-hydroxylase

Question Number : 56 Question Id : 959376656 Question Type : MCQ

Correct : 2 Wrong : 1

Rate limiting enzyme in catecholamine biosynthesis:

Options :

- 1. ✔ tyrosine hydroxylase
- 2. ✖ dopa decarboxylase
- 3. ✖ dopamine  $\beta$ -hydroxylase
- 4. ✖ 24-hydroxylase
- 5. ✖ 25-hydroxylase

Question Number : 57 Question Id : 959376657 Question Type : MCQ

Correct : 2 Wrong : 1

The  $K_M$  of an enzyme is:

Options :

- 1. ✖ one half of the  $V_{max}$
- 2. ✔ the substrate concentration that gives half maximal velocity
- 3. ✖ a dissociation constant
- 4. ✖ the substrate concentration that gives maximal velocity
- 5. ✖ one fourth of  $V_{max}$

Question Number : 57 Question Id : 959376657 Question Type : MCQ

Correct : 2 Wrong : 1

The  $K_M$  of an enzyme is:

Options :

- 1. ✖ one half of the  $V_{max}$
- 2. ✔ the substrate concentration that gives half maximal velocity
- 3. ✖ a dissociation constant
- 4. ✖ the substrate concentration that gives maximal velocity
- 5. ✖ one fourth of  $V_{max}$

Question Number : 58 Question Id : 959376658 Question Type : MCQ

Correct : 2 Wrong : 1

Which of the following enzyme transfers a phosphate group from ATP to another molecule?

Options :



1. ✖ phosphatase
2. ✖ Phosphodiesterase
3. ✔ kinase
4. ✖ esterase
5. ✖ Carboxylase

Question Number : 58 Question Id : 959376658 Question Type : MCQ

Correct : 2 Wrong : 1

Which of the following enzyme transfers a phosphate group from ATP to another molecule?

Options :

1. ✖ phosphatase
2. ✖ Phosphodiesterase
3. ✔ kinase
4. ✖ esterase
5. ✖ Carboxylase

Question Number : 59 Question Id : 959376659 Question Type : MCQ

Correct : 2 Wrong : 1

Catalytic triad of chymotrypsin includes:

Options :

1. ✖ leucine, histidine, cysteine
2. ✔ serine, histidine, aspartic acid
3. ✖ serine, valine, glycine
4. ✖ tyrosine, glycine, histidine
5. ✖ lysine, valine, arginine

Question Number : 59 Question Id : 959376659 Question Type : MCQ

Correct : 2 Wrong : 1

Catalytic triad of chymotrypsin includes:

Options :

1. ✖ leucine, histidine, cysteine
2. ✔ serine, histidine, aspartic acid
3. ✖ serine, valine, glycine
4. ✖ tyrosine, glycine, histidine
5. ✖ lysine, valine, arginine

Question Number : 60 Question Id : 959376660 Question Type : MCQ

Correct : 2 Wrong : 1

Which of the following regulatory action involves a reversible covalent modification of an enzyme?

Options :

1. ✖ allosteric modification
2. ✖ competitive inhibition
3. ✖ conversion of zymogen to active enzyme
4. ✖ Non-competitive inhibition
5. ✔ phosphorylation of a serine hydroxyl on the enzyme

Question Number : 60 Question Id : 959376660 Question Type : MCQ

Correct : 2 Wrong : 1

Which of the following regulatory action involves a reversible covalent modification of an enzyme?

Options :

1. ✖ allosteric modification
2. ✖ competitive inhibition
3. ✖ conversion of zymogen to active enzyme
4. ✖ Non-competitive inhibition
5. ✔ phosphorylation of a serine hydroxyl on the enzyme

Question Number : 61 Question Id : 959376661 Question Type : MCQ

Correct : 2 Wrong : 1

Two proteins have the same molecular mass and have identical net charge at pH 7. The best way to separate them would be to use:

Options :

1. ✖ native gel electrophoresis
2. ✔ SDS-polyacrylamide gel electrophoresis
3. ✖ cation exchange chromatography
4. ✖ anion exchange chromatography
5. ✖ thin layer chromatography

Question Number : 61 Question Id : 959376661 Question Type : MCQ

Correct : 2 Wrong : 1

Two proteins have the same molecular mass and have identical net charge at pH 7. The best way to separate them would be to use:

Options :

1. ✖ native gel electrophoresis
2. ✔ SDS-polyacrylamide gel electrophoresis



- 3. ✖ cation exchange chromatography
- 4. ✖ anion exchange chromatography
- 5. ✖ thin layer chromatography

Question Number : 62 Question Id : 959376662 Question Type : MCQ

Correct : 2 Wrong : 1

Technique employed for the purification of a desired protein in a single step:

Options :

- 1. ✖ Ion exchange chromatography
- 2. ✖ SDS-PAGE
- 3. ✔ Affinity chromatography
- 4. ✖ Gel permeation chromatography
- 5. ✖ Column chromatography

Question Number : 62 Question Id : 959376662 Question Type : MCQ

Correct : 2 Wrong : 1

Technique employed for the purification of a desired protein in a single step:

Options :

- 1. ✖ Ion exchange chromatography
- 2. ✖ SDS-PAGE
- 3. ✔ Affinity chromatography
- 4. ✖ Gel permeation chromatography
- 5. ✖ Column chromatography

Question Number : 63 Question Id : 959376663 Question Type : MCQ

Correct : 2 Wrong : 1

Method used for determining the isoelectric point of membrane proteins:

Options :

- 1. ✖ thin layer chromatography
- 2. ✖ ion exchange chromatography
- 3. ✖ affinity chromatography
- 4. ✔ chromatofocusing
- 5. ✖ ultracentrifugation

Question Number : 63 Question Id : 959376663 Question Type : MCQ

Correct : 2 Wrong : 1

Method used for determining the isoelectric point of membrane proteins:

Options :



1. ✖ thin layer chromatography
2. ✖ ion exchange chromatography
3. ✖ affinity chromatography
4. ✔ chromatofocusing
5. ✖ ultracentrifugation

Question Number : 64 Question Id : 959376664 Question Type : MCQ

Correct : 2 Wrong : 1

Radio isotope used for assessing the kidney function:

Options :

1. ✖  $\text{Co}^{60}$
2. ✖  $\text{Cr}^{51}$
3. ✔  $\text{I}^{131}$
4. ✖  $\text{Xe}^{133}$
5. ✖  $\text{P}^{32}$

Question Number : 64 Question Id : 959376664 Question Type : MCQ

Correct : 2 Wrong : 1

Radio isotope used for assessing the kidney function:

Options :

1. ✖  $\text{Co}^{60}$
2. ✖  $\text{Cr}^{51}$
3. ✔  $\text{I}^{131}$
4. ✖  $\text{Xe}^{133}$
5. ✖  $\text{P}^{32}$

Question Number : 65 Question Id : 959376665 Question Type : MCQ

Correct : 2 Wrong : 1

1 curie is equal to:

Options :

1. ✖  $5.7 \times 10^8 \text{ Bq}$
2. ✖  $7.2 \times 10^9 \text{ Bq}$
3. ✖  $1.5 \times 10^{10} \text{ Bq}$
4. ✔  $3.7 \times 10^{10} \text{ Bq}$
5. ✖  $10 \times 10^6 \text{ Bq}$





Question Number : 65 Question Id : 959376665 Question Type : MCQ

Correct : 2 Wrong : 1

1 curie is equal to:

Options :

1. ✖  $5.7 \times 10^8$  Bq
2. ✖  $7.2 \times 10^9$  Bq
3. ✖  $1.5 \times 10^{10}$  Bq
4. ✔  $3.7 \times 10^{10}$  Bq
5. ✖  $10 \times 10^6$  Bq

Question Number : 66 Question Id : 959376666 Question Type : MCQ

Correct : 2 Wrong : 1

Molecular sub-structures responsible for interaction with electromagnetic radiation are called:

Options :

1. ✖ ionophores
2. ✔ chromophores
3. ✖ desmosomes
4. ✖ calmodulin
5. ✖ ceruloplasmin

Question Number : 66 Question Id : 959376666 Question Type : MCQ

Correct : 2 Wrong : 1

Molecular sub-structures responsible for interaction with electromagnetic radiation are called:

Options :

1. ✖ ionophores
2. ✔ chromophores
3. ✖ desmosomes
4. ✖ calmodulin
5. ✖ ceruloplasmin

Question Number : 67 Question Id : 959376667 Question Type : MCQ

Correct : 2 Wrong : 1

Elemental analysis can be analyzed at concentrations of less than 1 ppm :

Options :

1. ✖ UV-Visible spectrophotometer
2. ✔ Atomic absorption spectrophotometer



- 3. ✖ Circular dichroism
- 4. ✖ Spectrofluorimeter
- 5. ✖ IR Spectrophotometer

Question Number : 67 Question Id : 959376667 Question Type : MCQ

Correct : 2 Wrong : 1

Elemental analysis can be analyzed at concentrations of less than 1 ppm :

Options :

- 1. ✖ UV-Visible spectrophotometer
- 2. ✔ Atomic absorption spectrophotometer
- 3. ✖ Circular dichroism
- 4. ✖ Spectrofluorimeter
- 5. ✖ IR Spectrophotometer

Question Number : 68 Question Id : 959376668 Question Type : MCQ

Correct : 2 Wrong : 1

Spectroscopic method mainly employed for the structural determination of organic compounds:

Options :

- 1. ✖ IR spectroscopy
- 2. ✖ UV-Visible spectroscopy
- 3. ✔ NMR spectroscopy
- 4. ✖ Circular dichroism
- 5. ✖ Luminometry

Question Number : 68 Question Id : 959376668 Question Type : MCQ

Correct : 2 Wrong : 1

Spectroscopic method mainly employed for the structural determination of organic compounds:

Options :

- 1. ✖ IR spectroscopy
- 2. ✖ UV-Visible spectroscopy
- 3. ✔ NMR spectroscopy
- 4. ✖ Circular dichroism
- 5. ✖ Luminometry

Question Number : 69 Question Id : 959376669 Question Type : MCQ

Correct : 2 Wrong : 1

Method employed in the determination of the three-dimensional structure of DNA by Crick, Franklin, Watson and Wilkins:

Options :

1. ✗ NMR spectroscopy
2. ✗ IR spectroscopy
3. ✗ Raman spectroscopy
4. ✓ Fibre diffraction
5. ✗ UV-Visible spectroscopy

Question Number : 69 Question Id : 959376669 Question Type : MCQ

Correct : 2 Wrong : 1

Method employed in the determination of the three-dimensional structure of DNA by Crick, Franklin, Watson and Wilkins:

Options :

1. ✗ NMR spectroscopy
2. ✗ IR spectroscopy
3. ✗ Raman spectroscopy
4. ✓ Fibre diffraction
5. ✗ UV-Visible spectroscopy

Question Number : 70 Question Id : 959376670 Question Type : MCQ

Correct : 2 Wrong : 1

In scanning electron microscope, samples are generally fixed in:

Options :

1. ✗ ethanol
2. ✗ butanol
3. ✓ glutaraldehyde
4. ✗ glycerol
5. ✗ Sodium propionate

Question Number : 70 Question Id : 959376670 Question Type : MCQ

Correct : 2 Wrong : 1

In scanning electron microscope, samples are generally fixed in:

Options :

1. ✗ ethanol
2. ✗ butanol
3. ✓ glutaraldehyde
4. ✗ glycerol

5. ✖ Sodium propionate

Question Number : 71 Question Id : 959376671 Question Type : MCQ

Correct : 2 Wrong : 1

Sedimentation coefficient of biological macromolecules are expressed as:

Options :

1. ✖ curie units
2. ✖ bequerel units
3. ✖ daltons
4. ✔ svedberg units
5. ✖ amu

Question Number : 71 Question Id : 959376671 Question Type : MCQ

Correct : 2 Wrong : 1

Sedimentation coefficient of biological macromolecules are expressed as:

Options :

1. ✖ curie units
2. ✖ bequerel units
3. ✖ daltons
4. ✔ svedberg units
5. ✖ amu

Question Number : 72 Question Id : 959376672 Question Type : MCQ

Correct : 2 Wrong : 1

Golgi complex plays a major role in:

Options :

1. ✖ protein synthesis
2. ✔ glycosylation of lipids and proteins
3. ✖ removal of sulphate from carbohydrate moiety of glycolipids
4. ✖ formation of secondary lysosomes
5. ✖ lateral diffusion of lipids

Question Number : 72 Question Id : 959376672 Question Type : MCQ

Correct : 2 Wrong : 1

Golgi complex plays a major role in:

Options :

1. ✖ protein synthesis
2. ✔ glycosylation of lipids and proteins
3. ✖ removal of sulphate from carbohydrate moiety of glycolipids



- 4. ✖ formation of secondary lysosomes
- 5. ✖ lateral diffusion of lipids

Question Number : 73 Question Id : 959376673 Question Type : MCQ  
Correct : 2 Wrong : 1

Which one of the following is found only in plants?

Options :

- 1. ✖ tight junctions
- 2. ✖ gap junctions
- 3. ✔ plasmodesmata
- 4. ✖ desmosomes
- 5. ✖ Plasmosomes

Question Number : 73 Question Id : 959376673 Question Type : MCQ  
Correct : 2 Wrong : 1

Which one of the following is found only in plants?

Options :

- 1. ✖ tight junctions
- 2. ✖ gap junctions
- 3. ✔ plasmodesmata
- 4. ✖ desmosomes
- 5. ✖ Plasmosomes

Question Number : 74 Question Id : 959376674 Question Type : MCQ  
Correct : 2 Wrong : 1

Lysosomes contain vast array of hydrolytic enzymes which can digest any foreign material except:

Options :

- 1. ✖ Glycogen
- 2. ✖ Starch
- 3. ✖ Lipids
- 4. ✖ Peptides
- 5. ✔ Cellulose

Question Number : 74 Question Id : 959376674 Question Type : MCQ  
Correct : 2 Wrong : 1

Lysosomes contain vast array of hydrolytic enzymes which can digest any foreign material except:

Options :

1. ✖ Glycogen
2. ✖ Starch
3. ✖ Lipids
4. ✖ Peptides
5. ✔ Cellulose

Question Number : 75 Question Id : 959376675 Question Type : MCQ

Correct : 2 Wrong : 1

In facilitated diffusion, a transport protein assists in the movement of a specific substrate:

Options :

1. ✖ against its concentration gradient
2. ✖ along the concentration gradient
3. ✔ down its concentration gradient
4. ✖ by ATP hydrolysis
5. ✖ by GTP hydrolysis

Question Number : 75 Question Id : 959376675 Question Type : MCQ

Correct : 2 Wrong : 1

In facilitated diffusion, a transport protein assists in the movement of a specific substrate:

Options :

1. ✖ against its concentration gradient
2. ✖ along the concentration gradient
3. ✔ down its concentration gradient
4. ✖ by ATP hydrolysis
5. ✖ by GTP hydrolysis

Question Number : 76 Question Id : 959376676 Question Type : MCQ

Correct : 2 Wrong : 1

Red blood cells contain large quantities of:

Options :

1. ✖ Catalase
2. ✖ Peroxidase
3. ✖ Glucokinase
4. ✔ carbonic anhydrase
5. ✖ Hexokinase

Question Number : 76 Question Id : 959376676 Question Type : MCQ

Correct : 2 Wrong : 1



Red blood cells contain large quantities of:

Options :

1. ✖ Catalase
2. ✖ Peroxidase
3. ✖ Glucokinase
4. ✔ carbonic anhydrase
5. ✖ Hexokinase

Question Number : 77 Question Id : 959376677 Question Type : MCQ

Correct : 2 Wrong : 1

The principal stimulus for red blood cell production in low oxygen states:

Options :

1. ✖ Glucagon
2. ✖ Insulin
3. ✖ Calmodulin
4. ✔ erythropoietin
5. ✖ Epinephrine

Question Number : 77 Question Id : 959376677 Question Type : MCQ

Correct : 2 Wrong : 1

The principal stimulus for red blood cell production in low oxygen states:

Options :

1. ✖ Glucagon
2. ✖ Insulin
3. ✖ Calmodulin
4. ✔ erythropoietin
5. ✖ Epinephrine

Question Number : 78 Question Id : 959376678 Question Type : MCQ

Correct : 2 Wrong : 1

Number of oxygen molecules that can be transported by each hemoglobin molecule:

Options :

1. ✖ 8
2. ✔ 4
3. ✖ 2
4. ✖ 6
5. ✖ 12

Question Number : 78 Question Id : 959376678 Question Type : MCQ

Correct : 2 Wrong : 1

Number of oxygen molecules that can be transported by each hemoglobin molecule:

Options :

1. ✖ 8
2. ✔ 4
3. ✖ 2
4. ✖ 6
5. ✖ 12

Question Number : 79 Question Id : 959376679 Question Type : MCQ

Correct : 2 Wrong : 1

The major serine protease inhibitor of plasma:

Options :

1. ✖ thermolysin
2. ✖ haptoglobin
3. ✔  $\alpha$ 1-Antitrypsin
4. ✖ ceruloplasmin
5. ✖ Papain

Question Number : 79 Question Id : 959376679 Question Type : MCQ

Correct : 2 Wrong : 1

The major serine protease inhibitor of plasma:

Options :

1. ✖ thermolysin
2. ✖ haptoglobin
3. ✔  $\alpha$ 1-Antitrypsin
4. ✖ ceruloplasmin
5. ✖ Papain

Question Number : 80 Question Id : 959376680 Question Type : MCQ

Correct : 2 Wrong : 1

Hemophilia A is due to a genetically determined deficiency of:

Options :

1. ✖ Factor V
2. ✔ Factor VIII
3. ✖ Factor X
4. ✖ Factor XII
5. ✖ Factor VI

Question Number : 80 Question Id : 959376680 Question Type : MCQ



Correct : 2 Wrong : 1

Hemophilia A is due to a genetically determined deficiency of:

Options :

1. ✖ Factor V
2. ✔ Factor VIII
3. ✖ Factor X
4. ✖ Factor XII
5. ✖ Factor VI

Question Number : 81 Question Id : 959376681 Question Type : MCQ

Correct : 2 Wrong : 1

Disease of the fetus and newborn child characterized by agglutination and phagocytosis of the fetus red blood cells:

Options :

1. ✖ Graves disease
2. ✖ Acromegaly
3. ✔ Erythroblastosis foetalis
4. ✖ Pernicious anemia
5. ✖ Hemolytic anemia

Question Number : 81 Question Id : 959376681 Question Type : MCQ

Correct : 2 Wrong : 1

Disease of the fetus and newborn child characterized by agglutination and phagocytosis of the fetus red blood cells:

Options :

1. ✖ Graves disease
2. ✖ Acromegaly
3. ✔ Erythroblastosis foetalis
4. ✖ Pernicious anemia
5. ✖ Hemolytic anemia

Question Number : 82 Question Id : 959376682 Question Type : MCQ

Correct : 2 Wrong : 1

The solubility coefficient of  $\text{CO}_2$  at body temperature when partial pressure is expressed in atmospheres and concentration is expressed in volume of gas dissolved in each volume of water:

Options :

1. ✖ 0.05
2. ✖ 0.10
3. ✖ 0.024
4. ✔ 0.57



5. ✖ 0.008

Question Number : 82 Question Id : 959376682 Question Type : MCQ

Correct : 2 Wrong : 1

The solubility coefficient of  $\text{CO}_2$  at body temperature when partial pressure is expressed in atmospheres and concentration is expressed in volume of gas dissolved in each volume of water:

Options :

- 1. ✖ 0.05
- 2. ✖ 0.10
- 3. ✖ 0.024
- 4. ✔ 0.57
- 5. ✖ 0.008

Question Number : 83 Question Id : 959376683 Question Type : MCQ

Correct : 2 Wrong : 1

Hormones that cause reduction in GFR and renal blood flow:

Options :

- 1. ✖ T3 and T4
- 2. ✔ epinephrine and norepinephrine
- 3. ✖ Insulin and Glucagon
- 4. ✖ Mineralocorticoids
- 5. ✖ Testosterone and Progesterone

Question Number : 83 Question Id : 959376683 Question Type : MCQ

Correct : 2 Wrong : 1

Hormones that cause reduction in GFR and renal blood flow:

Options :

- 1. ✖ T3 and T4
- 2. ✔ epinephrine and norepinephrine
- 3. ✖ Insulin and Glucagon
- 4. ✖ Mineralocorticoids
- 5. ✖ Testosterone and Progesterone

Question Number : 84 Question Id : 959376684 Question Type : MCQ

Correct : 2 Wrong : 1

Which buffer system is the most important extracellular buffer in maintaining acid-base balance in the body?

Options :

- 1. ✔ bicarbonate buffer system
- 2. ✖ phosphate buffer system

- 3. ✖ citrate buffer system
- 4. ✖ acetate buffer system
- 5. ✖ glycine-NaOH buffer system

Question Number : 84 Question Id : 959376684 Question Type : MCQ

Correct : 2 Wrong : 1

Which buffer system is the most important extracellular buffer in maintaining acid-base balance in the body?

Options :

- 1. ✔ bicarbonate buffer system
- 2. ✖ phosphate buffer system
- 3. ✖ citrate buffer system
- 4. ✖ acetate buffer system
- 5. ✖ glycine-NaOH buffer system

Question Number : 85 Question Id : 959376685 Question Type : MCQ

Correct : 2 Wrong : 1

Which hormone plays an important role in allowing the kidneys to form a small volume of concentrated urine while excreting normal amounts of salt?

Options :

- 1. ✖ Insulin
- 2. ✖ Glucagon
- 3. ✔ Antidiuretic hormone (ADH)
- 4. ✖ Epinephrine
- 5. ✖ Progesterone

Question Number : 85 Question Id : 959376685 Question Type : MCQ

Correct : 2 Wrong : 1

Which hormone plays an important role in allowing the kidneys to form a small volume of concentrated urine while excreting normal amounts of salt?

Options :

- 1. ✖ Insulin
- 2. ✖ Glucagon
- 3. ✔ Antidiuretic hormone (ADH)
- 4. ✖ Epinephrine
- 5. ✖ Progesterone

Question Number : 86 Question Id : 959376686 Question Type : MCQ

Correct : 2 Wrong : 1



Hormone responsible for potent stimulus for causing the gallbladder contractions:

Options :

1. ✖ Insulin
2. ✖ Gastrin
3. ✖ Rennin
4. ✔ Cholecystokinin
5. ✖ Glucagon

Question Number : 86 Question Id : 959376686 Question Type : MCQ

Correct : 2 Wrong : 1

Hormone responsible for potent stimulus for causing the gallbladder contractions:

Options :

1. ✖ Insulin
2. ✖ Gastrin
3. ✖ Rennin
4. ✔ Cholecystokinin
5. ✖ Glucagon

Question Number : 87 Question Id : 959376687 Question Type : MCQ

Correct : 2 Wrong : 1

Fructose is transported all the way through the intestinal epithelium:

Options :

1. ✖ Facilitated diffusion coupled with sodium transport
2. ✔ Facilitated diffusion but not coupled with sodium transport
3. ✖ active transport
4. ✖ as micelles
5. ✖ secondary active transport

Question Number : 87 Question Id : 959376687 Question Type : MCQ

Correct : 2 Wrong : 1

Fructose is transported all the way through the intestinal epithelium:

Options :

1. ✖ Facilitated diffusion coupled with sodium transport
2. ✔ Facilitated diffusion but not coupled with sodium transport
3. ✖ active transport
4. ✖ as micelles
5. ✖ secondary active transport



Question Number : 88 Question Id : 959376688 Question Type : MCQ

Correct : 2 Wrong : 1

The portion of the myofibril that lies between two successive Z discs is called:

Options :

1. ✗ Sarcoplasm
2. ✗ Sarcolemma
3. ✗ I- band
4. ✓ Sarcomere
5. ✗ A-band

Question Number : 88 Question Id : 959376688 Question Type : MCQ

Correct : 2 Wrong : 1

The portion of the myofibril that lies between two successive Z discs is called:

Options :

1. ✗ Sarcoplasm
2. ✗ Sarcolemma
3. ✗ I- band
4. ✓ Sarcomere
5. ✗ A-band

Question Number : 89 Question Id : 959376689 Question Type : MCQ

Correct : 2 Wrong : 1

In muscle contraction, what starts filament sliding?

Options :

1. ✗ a decrease in  $\text{Na}^+$  concentration in the cytosol
2. ✓ an increase in  $\text{Ca}^{2+}$  concentration in the cytosol
3. ✗ an increase in  $\text{K}^+$  concentration in the cytosol
4. ✗ the bending of myosin head
5. ✗ the release of energy from the breakdown of ATP

Question Number : 89 Question Id : 959376689 Question Type : MCQ

Correct : 2 Wrong : 1

In muscle contraction, what starts filament sliding?

Options :

1. ✗ a decrease in  $\text{Na}^+$  concentration in the cytosol
2. ✓ an increase in  $\text{Ca}^{2+}$  concentration in the cytosol
3. ✗ an increase in  $\text{K}^+$  concentration in the cytosol
4. ✗ the bending of myosin head

5. ✖ the release of energy from the breakdown of ATP

Question Number : 90 Question Id : 959376690 Question Type : MCQ

Correct : 2 Wrong : 1

Inability of the neuromuscular junctions to transmit enough signals from the nerve fibers to the muscle fibers leads to:

Options :

1. ✖ Rigor mortis
2. ✖ Graves disease
3. ✔ Myasthenia gravis
4. ✖ Addison's disease
5. ✖ Gaucher's disease

Question Number : 90 Question Id : 959376690 Question Type : MCQ

Correct : 2 Wrong : 1

Inability of the neuromuscular junctions to transmit enough signals from the nerve fibers to the muscle fibers leads to:

Options :

1. ✖ Rigor mortis
2. ✖ Graves disease
3. ✔ Myasthenia gravis
4. ✖ Addison's disease
5. ✖ Gaucher's disease

Question Number : 91 Question Id : 959376691 Question Type : MCQ

Correct : 2 Wrong : 1

The action potential of a neuron:

Options :

1. ✖ is initiated by efflux of  $\text{Na}^+$
2. ✔ is terminated by efflux of  $\text{K}^+$
3. ✖ is terminated by the efflux of  $\text{Cl}^-$
4. ✖ declines in amplitude as it moves along the axon
5. ✖ results in a transient reversal of the concentration gradient

Question Number : 91 Question Id : 959376691 Question Type : MCQ

Correct : 2 Wrong : 1

The action potential of a neuron:

Options :

1. ✖ is initiated by efflux of  $\text{Na}^+$



- 2. ☒ is terminated by efflux of  $K^+$
- 3. ☐ is terminated by the efflux of  $Cl^-$
- 4. ☐ declines in amplitude as it moves along the axon
- 5. ☐ results in a transient reversal of the concentration gradient

Question Number : 92 Question Id : 959376692 Question Type : MCQ

Correct : 2 Wrong : 1

Extreme protein deficiency during the protein malnutrition leads to:

Options :

- 1. ☐ Anemia
- 2. ☐ Pellagra
- 3. ☐ cushings syndrome
- 4. ☐ beri-beri
- 5. ☒ Kwashiorkor

Question Number : 92 Question Id : 959376692 Question Type : MCQ

Correct : 2 Wrong : 1

Extreme protein deficiency during the protein malnutrition leads to:

Options :

- 1. ☐ Anemia
- 2. ☐ Pellagra
- 3. ☐ cushings syndrome
- 4. ☐ beri-beri
- 5. ☒ Kwashiorkor

Question Number : 93 Question Id : 959376693 Question Type : MCQ

Correct : 2 Wrong : 1

Respiratory Quotient (RQ) for glucose is:

Options :

- 1. ☐ 0.7
- 2. ☒ 1
- 3. ☐ 0.5
- 4. ☐ 0.3
- 5. ☐ 0.45

Question Number : 93 Question Id : 959376693 Question Type : MCQ

Correct : 2 Wrong : 1

Respiratory Quotient (RQ) for glucose is:

Options :

1. ✖ 0.7
2. ✔ 1
3. ✖ 0.5
4. ✖ 0.3
5. ✖ 0.45

Question Number : 94 Question Id : 959376694 Question Type : MCQ

Correct : 2 Wrong : 1

Deficiency of niacin causes:

Options :

1. ✖ Beri-beri
2. ✔ pellagra
3. ✖ cheilosis
4. ✖ anemia
5. ✖ rickets

Question Number : 94 Question Id : 959376694 Question Type : MCQ

Correct : 2 Wrong : 1

Deficiency of niacin causes:

Options :

1. ✖ Beri-beri
2. ✔ pellagra
3. ✖ cheilosis
4. ✖ anemia
5. ✖ rickets

Question Number : 95 Question Id : 959376695 Question Type : MCQ

Correct : 2 Wrong : 1

Coenzymic form of pantothenic acid:

Options :

1. ✖ NAD
2. ✖ FAD
3. ✖ TPP
4. ✔ Coenzyme A
5. ✖ FMN

Question Number : 95 Question Id : 959376695 Question Type : MCQ

Correct : 2 Wrong : 1

Coenzymic form of pantothenic acid:

Options :



1. ✖ NAD
2. ✖ FAD
3. ✖ TPP
4. ✔ Coenzyme A
5. ✖ FMN

Question Number : 96 Question Id : 959376696 Question Type : MCQ

Correct : 2 Wrong : 1

Hormone which increases renal tubular reabsorption of sodium and secretion of potassium:

Options :

1. ✖ insulin
2. ✖ testosterone
3. ✔ Aldosterone
4. ✖ progesterone
5. ✖ Epinephrine

Question Number : 96 Question Id : 959376696 Question Type : MCQ

Correct : 2 Wrong : 1

Hormone which increases renal tubular reabsorption of sodium and secretion of potassium:

Options :

1. ✖ insulin
2. ✖ testosterone
3. ✔ Aldosterone
4. ✖ progesterone
5. ✖ Epinephrine

Question Number : 97 Question Id : 959376697 Question Type : MCQ

Correct : 2 Wrong : 1

Which amino acid destabilizes the alpha-helical structure of a protein?

Options :

1. ✖ Serine
2. ✖ Arginine
3. ✔ Proline
4. ✖ Tyrosine
5. ✖ Glutamine

Question Number : 97 Question Id : 959376697 Question Type : MCQ

Correct : 2 Wrong : 1

Which amino acid destabilizes the alpha-helical structure of a protein?

Options :



1. ✖ Serine
2. ✖ Arginine
3. ✔ Proline
4. ✖ Tyrosine
5. ✖ Glutamine

Question Number : 98 Question Id : 959376698 Question Type : MCQ

Correct : 2 Wrong : 1

Histones have a high proportion of the following amino acids:

Options :

1. ✔ Lysine and arginine
2. ✖ Tryptophan and tyrosine
3. ✖ Tyrosine and phenylalanine
4. ✖ Glutamic acid and aspartic acid
5. ✖ Glycine and valine

Question Number : 98 Question Id : 959376698 Question Type : MCQ

Correct : 2 Wrong : 1

Histones have a high proportion of the following amino acids:

Options :

1. ✔ Lysine and arginine
2. ✖ Tryptophan and tyrosine
3. ✖ Tyrosine and phenylalanine
4. ✖ Glutamic acid and aspartic acid
5. ✖ Glycine and valine

Question Number : 99 Question Id : 959376699 Question Type : MCQ

Correct : 2 Wrong : 1

Glucose and galactose are:

Options :

1. ✖ Anomers
2. ✔ Epimers
3. ✖ enantiomers
4. ✖ conformers
5. ✖ diastereomers

Question Number : 99 Question Id : 959376699 Question Type : MCQ

Correct : 2 Wrong : 1



Glucose and galactose are:

Options :

1. ✖ Anomers
2. ✔ Epimers
3. ✖ enantiomers
4. ✖ conformers
5. ✖ diastereomers

Question Number : 100 Question Id : 959376700 Question Type : MCQ

Correct : 2 Wrong : 1

A steroid hormone typically alters the activity of its target cells by:

Options :

1. ✖ digesting holes in the cell's plasma membrane
2. ✔ entering the cell and altering gene expression
3. ✖ passing its message to an intracellular messenger
4. ✖ digesting holes in the cell's lysosomes
5. ✖ passing its message to an extracellular messenger

Question Number : 100 Question Id : 959376700 Question Type : MCQ

Correct : 2 Wrong : 1

A steroid hormone typically alters the activity of its target cells by:

Options :

1. ✖ digesting holes in the cell's plasma membrane
2. ✔ entering the cell and altering gene expression
3. ✖ passing its message to an intracellular messenger
4. ✖ digesting holes in the cell's lysosomes
5. ✖ passing its message to an extracellular messenger

Question Number : 101 Question Id : 959376701 Question Type : MCQ

Correct : 2 Wrong : 1

Uncoupling of oxidative phosphorylation implies that:

Options :

1. ✖ The ATPase activity of mitochondria is abolished
2. ✖ The mitochondria ceases to oxidize succinate
3. ✔ ATP formation ceases but respiration continues
4. ✖ ATP formation continue but respiration ceases
5. ✖ Respiration ceases and no net formation of ATP



Question Number : 101 Question Id : 959376701 Question Type : MCQ

Correct : 2 Wrong : 1

Uncoupling of oxidative phosphorylation implies that:

Options :

1. ✗ The ATPase activity of mitochondria is abolished
2. ✗ The mitochondria ceases to oxidize succinate
3. ✓ ATP formation ceases but respiration continues
4. ✗ ATP formation continue but respiration ceases
5. ✗ Respiration ceases and no net formation of ATP

Question Number : 102 Question Id : 959376702 Question Type : MCQ

Correct : 2 Wrong : 1

Many enzymes that catalyze oxidation reactions are:

Options :

1. ✗ Isomerases
2. ✓ Dehydrogenases
3. ✗ Mutases
4. ✗ Oxidases
5. ✗ Kinases

Question Number : 102 Question Id : 959376702 Question Type : MCQ

Correct : 2 Wrong : 1

Many enzymes that catalyze oxidation reactions are:

Options :

1. ✗ Isomerases
2. ✓ Dehydrogenases
3. ✗ Mutases
4. ✗ Oxidases
5. ✗ Kinases

Question Number : 103 Question Id : 959376703 Question Type : MCQ

Correct : 2 Wrong : 1

Electrochemical potential gradient for ATP synthesis across the mitochondrial membrane was generated by:

Options :

1. ✓ Pumps
2. ✗ Channels
3. ✗ Facilitated diffusion
4. ✗ Passive transport



5. ✖ Enzymes

Question Number : 103 Question Id : 959376703 Question Type : MCQ

Correct : 2 Wrong : 1

Electrochemical potential gradient for ATP synthesis across the mitochondrial membrane was generated by:

Options :

1. ✔ Pumps
2. ✖ Channels
3. ✖ Facilitated diffusion
4. ✖ Passive transport
5. ✖ Enzymes

Question Number : 104 Question Id : 959376704 Question Type : MCQ

Correct : 2 Wrong : 1

Methods for determining the sequence of electron carriers in electron transport chain:

Options :

1. ✖ By determining inhibitors study
2. ✖ By determining standard reduction potentials alone
3. ✖ Inhibitor studies on carriers alone
4. ✔ By determining standard reduction potentials and inhibitors study
5. ✖ Activator studies on carriers

Question Number : 104 Question Id : 959376704 Question Type : MCQ

Correct : 2 Wrong : 1

Methods for determining the sequence of electron carriers in electron transport chain:

Options :

1. ✖ By determining inhibitors study
2. ✖ By determining standard reduction potentials alone
3. ✖ Inhibitor studies on carriers alone
4. ✔ By determining standard reduction potentials and inhibitors study
5. ✖ Activator studies on carriers

Question Number : 105 Question Id : 959376705 Question Type : MCQ

Correct : 2 Wrong : 1

Which of the following lipids are abundantly present in the thylakoid membrane?

Options :

1. ✖ Sulfolipids
2. ✖ Phospholipids



- 3. ✖ Lecithin
- 4. ✖ Triglycerides
- 5. ✔ Galactolipids

Question Number : 105 Question Id : 959376705 Question Type : MCQ

Correct : 2 Wrong : 1

Which of the following lipids are abundantly present in the thylakoid membrane?

Options :

- 1. ✖ Sulfolipids
- 2. ✖ Phospholipids
- 3. ✖ Lecithin
- 4. ✖ Triglycerides
- 5. ✔ Galactolipids

Question Number : 106 Question Id : 959376706 Question Type : MCQ

Correct : 2 Wrong : 1

Which of the following compound in non-cyclic photophosphorylation of light reaction contain copper?

Options :

- 1. ✖ Cytochrome
- 2. ✖ Ferridoxin
- 3. ✖ Plastoquinone
- 4. ✔ Plastocyanin
- 5. ✖ Chlorophyll

Question Number : 106 Question Id : 959376706 Question Type : MCQ

Correct : 2 Wrong : 1

Which of the following compound in non-cyclic photophosphorylation of light reaction contain copper?

Options :

- 1. ✖ Cytochrome
- 2. ✖ Ferridoxin
- 3. ✖ Plastoquinone
- 4. ✔ Plastocyanin
- 5. ✖ Chlorophyll

Question Number : 107 Question Id : 959376707 Question Type : MCQ

Correct : 2 Wrong : 1

Net production of ATP in glycolysis alone

Options :

- 1. ✓ 2
- 2. ✗ 4
- 3. ✗ 6
- 4. ✗ 8
- 5. ✗ 10

Question Number : 107 Question Id : 959376707 Question Type : MCQ

Correct : 2 Wrong : 1

Net production of ATP in glycolysis alone

Options :

- 1. ✓ 2
- 2. ✗ 4
- 3. ✗ 6
- 4. ✗ 8
- 5. ✗ 10

Question Number : 108 Question Id : 959376708 Question Type : MCQ

Correct : 2 Wrong : 1

Which of the following enzyme catalyzed reactions formed a product containing a newly formed high energy phosphate bond?

Options :

- 1. ✗ The phosphorylation of glucose
- 2. ✗ 2- phosphoglycerate to phosphoenol pyruvate
- 3. ✗ 3- phosphoglycerate to 2-phosphoglycerate
- 4. ✓ Phosphoenolpyruvate to pyruvate
- 5. ✗ Glucose to glucose-6-phosphate

Question Number : 108 Question Id : 959376708 Question Type : MCQ

Correct : 2 Wrong : 1

Which of the following enzyme catalyzed reactions formed a product containing a newly formed high energy phosphate bond?

Options :

- 1. ✗ The phosphorylation of glucose
- 2. ✗ 2- phosphoglycerate to phosphoenol pyruvate
- 3. ✗ 3- phosphoglycerate to 2-phosphoglycerate
- 4. ✓ Phosphoenolpyruvate to pyruvate
- 5. ✗ Glucose to glucose-6-phosphate

Question Number : 109 Question Id : 959376709 Question Type : MCQ



Correct : 2 Wrong : 1

Major target enzyme for regulating glycolysis in muscle under most conditions is:

Options :

1. ☒ Phosphofructokinase
2. ☐ Glucokinase
3. ☐ Hexokinase
4. ☐ Isomerase
5. ☐ Phospho enolpyruvate kinase

Question Number : 109 Question Id : 959376709 Question Type : MCQ

Correct : 2 Wrong : 1

Major target enzyme for regulating glycolysis in muscle under most conditions is:

Options :

1. ☒ Phosphofructokinase
2. ☐ Glucokinase
3. ☐ Hexokinase
4. ☐ Isomerase
5. ☐ Phospho enolpyruvate kinase

Question Number : 110 Question Id : 959376710 Question Type : MCQ

Correct : 2 Wrong : 1

Which of the following is an essential cofactor for Glycogen Phosphorylase?

Options :

1. ☐ Pyridoxine
2. ☒ Pryidoxal phosphate
3. ☐ Biotin
4. ☐ Cobalamin
5. ☐ Potassium

Question Number : 110 Question Id : 959376710 Question Type : MCQ

Correct : 2 Wrong : 1

Which of the following is an essential cofactor for Glycogen Phosphorylase?

Options :

1. ☐ Pyridoxine
2. ☒ Pryidoxal phosphate
3. ☐ Biotin
4. ☐ Cobalamin
5. ☐ Potassium



Question Number : 111 Question Id : 959376711 Question Type : MCQ

Correct : 2 Wrong : 1

Pompe's disease, a glycogen storage disease is due to the deficiency of:

Options :

1. ☒  $\alpha$  -1,4-Glucosidase
2. ☐ Phosphorylase kinase
3. ☐ Glycogen phosphorylase
4. ☐ Glycogen synthase
5. ☐ Glucose-6-phosphatase

Question Number : 111 Question Id : 959376711 Question Type : MCQ

Correct : 2 Wrong : 1

Pompe's disease, a glycogen storage disease is due to the deficiency of:

Options :

1. ☒  $\alpha$  -1,4-Glucosidase
2. ☐ Phosphorylase kinase
3. ☐ Glycogen phosphorylase
4. ☐ Glycogen synthase
5. ☐ Glucose-6-phosphatase

Question Number : 112 Question Id : 959376712 Question Type : MCQ

Correct : 2 Wrong : 1

In the pentose phosphate pathway:

Options :

1. ☒ Only the C-1 carbon of glucose is oxidized to  $\text{CO}_2$
2. ☐ All the carbons of glucose is oxidized to  $\text{CO}_2$
3. ☐ No decarboxylation occurs
4. ☐ C-4 and C-5 of glucose is oxidized to  $\text{CO}_2$
5. ☐ Only C-5 of glucose is oxidized to  $\text{CO}_2$

Question Number : 112 Question Id : 959376712 Question Type : MCQ

Correct : 2 Wrong : 1

In the pentose phosphate pathway:

Options :

1. ☒ Only the C-1 carbon of glucose is oxidized to  $\text{CO}_2$
2. ☐ All the carbons of glucose is oxidized to  $\text{CO}_2$
3. ☐ No decarboxylation occurs
4. ☐ C-4 and C-5 of glucose is oxidized to  $\text{CO}_2$

5. ✖ Only C-5 of glucose is oxidized to CO<sub>2</sub>

Question Number : 113 Question Id : 959376713 Question Type : MCQ

Correct : 2 Wrong : 1

Which of the following process involves the formation of new sugar?

Options :

1. ✖ Glycolysis
2. ✖ Glycogenlysis
3. ✔ Gluconeogenesis
4. ✖ Glycogenesis
5. ✖ HMP shunt

Question Number : 113 Question Id : 959376713 Question Type : MCQ

Correct : 2 Wrong : 1

Which of the following process involves the formation of new sugar?

Options :

1. ✖ Glycolysis
2. ✖ Glycogenlysis
3. ✔ Gluconeogenesis
4. ✖ Glycogenesis
5. ✖ HMP shunt

Question Number : 114 Question Id : 959376714 Question Type : MCQ

Correct : 2 Wrong : 1

In adult mammals fatty acid synthesis occurs mainly in:

Options :

1. ✖ Liver cells and muscle cells
2. ✔ Liver cells and adipocytes
3. ✖ Muscle cells and adipocytes
4. ✖ liver cells and mammary glands
5. ✖ Mammary glands and adipocytes

Question Number : 114 Question Id : 959376714 Question Type : MCQ

Correct : 2 Wrong : 1

In adult mammals fatty acid synthesis occurs mainly in:

Options :

1. ✖ Liver cells and muscle cells
2. ✔ Liver cells and adipocytes

- 3. ✖ Muscle cells and adipocytes
- 4. ✖ liver cells and mammary glands
- 5. ✖ Mammary glands and adipocytes

Question Number : 115 Question Id : 959376715 Question Type : MCQ

Correct : 2 Wrong : 1

Jamaican vomiting sickness is due to the deficiency of:

Options :

- 1. ✔ Acyl-CoA dehydrogenase
- 2. ✖ Methylenecyclopropylacetyl-CoA
- 3. ✖ Octanoyl-CoA
- 4. ✖ Enoyl-CoA hydratase
- 5. ✖ ketoacyl-CoA thiolase

Question Number : 115 Question Id : 959376715 Question Type : MCQ

Correct : 2 Wrong : 1

Jamaican vomiting sickness is due to the deficiency of:

Options :

- 1. ✔ Acyl-CoA dehydrogenase
- 2. ✖ Methylenecyclopropylacetyl-CoA
- 3. ✖ Octanoyl-CoA
- 4. ✖ Enoyl-CoA hydratase
- 5. ✖ ketoacyl-CoA thiolase

Question Number : 116 Question Id : 959376716 Question Type : MCQ

Correct : 2 Wrong : 1

Oxidation of Odd-Number Fatty Acids results in the formation of:

Options :

- 1. ✖ Acetyl Co.A
- 2. ✖ Palmityl Co.A
- 3. ✖ Phytinic acid
- 4. ✖ Acetoacetyl Co.A
- 5. ✔ Malonyl Co.A

Question Number : 116 Question Id : 959376716 Question Type : MCQ

Correct : 2 Wrong : 1

Oxidation of Odd-Number Fatty Acids results in the formation of:

Options :



1. ✖ Acetyl Co.A
2. ✖ Palmityl Co.A
3. ✖ Phytinic acid
4. ✖ Acetoacetyl Co.A
5. ✔ Malonyl Co.A

Question Number : 117 Question Id : 959376717 Question Type : MCQ

Correct : 2 Wrong : 1

Which step is the committed step in cholesterol formation?

Options :

1. ✔ Synthesis of mevalonate
2. ✖ 3-isopentenyl pyrophosphate formation
3. ✖ Synthesis of Squalene
4. ✖ Formation of dimethylallyl pyrophosphate
5. ✖ Synthesis of farnesyl pyrophosphate

Question Number : 117 Question Id : 959376717 Question Type : MCQ

Correct : 2 Wrong : 1

Which step is the committed step in cholesterol formation?

Options :

1. ✔ Synthesis of mevalonate
2. ✖ 3-isopentenyl pyrophosphate formation
3. ✖ Synthesis of Squalene
4. ✖ Formation of dimethylallyl pyrophosphate
5. ✖ Synthesis of farnesyl pyrophosphate

Question Number : 118 Question Id : 959376718 Question Type : MCQ

Correct : 2 Wrong : 1

Which of the following compound provides the carbon atoms for cholesterol synthesis?

Options :

1. ✖ Pregnenolone
2. ✔ Acetyl Co.A
3. ✖ Phytanic acid
4. ✖ 3-hydroxy-3-methylglutaryl Co.A
5. ✖ Squalene

Question Number : 118 Question Id : 959376718 Question Type : MCQ





Correct : 2 Wrong : 1

Which of the following compound provides the carbon atoms for cholesterol synthesis?

Options :

1. ✖ Pregnenolone
2. ✔ Acetyl Co.A
3. ✖ Phytanic acid
4. ✖ 3-hydroxy-3-methylglutaryl Co.A
5. ✖ Squalene

Question Number : 119 Question Id : 959376719 Question Type : MCQ

Correct : 2 Wrong : 1

Nitrogen fixation in cyanobacteria is carried out in specialized cells called:

Options :

1. ✖ Nodules
2. ✖ Root cells
3. ✖ Bacterial cells
4. ✔ Heterocysts
5. ✖ Nod cells

Question Number : 119 Question Id : 959376719 Question Type : MCQ

Correct : 2 Wrong : 1

Nitrogen fixation in cyanobacteria is carried out in specialized cells called:

Options :

1. ✖ Nodules
2. ✖ Root cells
3. ✖ Bacterial cells
4. ✔ Heterocysts
5. ✖ Nod cells

Question Number : 120 Question Id : 959376720 Question Type : MCQ

Correct : 2 Wrong : 1

The glutamate dehydrogenases of some species or tissues are specific for cofactor:

Options :

1. ✖ NADH only
2. ✖ NADPH only
3. ✔ NADH /NADPH
4. ✖ FAD
5. ✖ FADH

Question Number : 120 Question Id : 959376720 Question Type : MCQ

Correct : 2 Wrong : 1

The glutamate dehydrogenases of some species or tissues are specific for cofactor:

Options :

1. ✖ NADH only
2. ✖ NADPH only
3. ✔ NADH /NADPH
4. ✖ FAD
5. ✖ FADH

Question Number : 121 Question Id : 959376721 Question Type : MCQ

Correct : 2 Wrong : 1

Which aminoacid play a special role in transporting amino groups to the liver in a nontoxic form?

Options :

1. ✔ Alanine
2. ✖ Phenyl alanine
3. ✖ Tyrosine
4. ✖ Glutamine
5. ✖ Asparagine

Question Number : 121 Question Id : 959376721 Question Type : MCQ

Correct : 2 Wrong : 1

Which aminoacid play a special role in transporting amino groups to the liver in a nontoxic form?

Options :

1. ✔ Alanine
2. ✖ Phenyl alanine
3. ✖ Tyrosine
4. ✖ Glutamine
5. ✖ Asparagine

Question Number : 122 Question Id : 959376722 Question Type : MCQ

Correct : 2 Wrong : 1

Aspartate is precursor for the synthesis of, which of the following aminoacids?

Options :

1. ✖ Methionine and Histidine
2. ✖ Lysine and methionine
3. ✖ Lysine and threonine



- 4. ✖ Methionine, and threonine
- 5. ✔ Lysine, methionine, and threonine

Question Number : 122 Question Id : 959376722 Question Type : MCQ

Correct : 2 Wrong : 1

Aspartate is precursor for the synthesis of, which of the following aminoacids?

Options :

- 1. ✖ Methionine and Histidine
- 2. ✖ Lysine and methionine
- 3. ✖ Lysine and threonine
- 4. ✖ Methionine, and threonine
- 5. ✔ Lysine, methionine, and threonine

Question Number : 123 Question Id : 959376723 Question Type : MCQ

Correct : 2 Wrong : 1

N7 of purine ring is contributed by:

Options :

- 1. ✖ Aspartate
- 2. ✖ Formate
- 3. ✖ Glutamine
- 4. ✔ Glycine
- 5. ✖ Glutamate

Question Number : 123 Question Id : 959376723 Question Type : MCQ

Correct : 2 Wrong : 1

N7 of purine ring is contributed by:

Options :

- 1. ✖ Aspartate
- 2. ✖ Formate
- 3. ✖ Glutamine
- 4. ✔ Glycine
- 5. ✖ Glutamate

Question Number : 124 Question Id : 959376724 Question Type : MCQ

Correct : 2 Wrong : 1

Carbamoyl phosphate required in pyrimidine biosynthesis made by carbomyl phosphate synthetase-II is located in:

Options :

- 1. ✖ Mitochondrial matrix



- 2. ✖ Intermembrane space
- 3. ✔ Cytosol
- 4. ✖ Plasma membrane
- 5. ✖ Golgi complex

Question Number : 124 Question Id : 959376724 Question Type : MCQ

Correct : 2 Wrong : 1

Carbamoyl phosphate required in pyrimidine biosynthesis made by carbomyl phosphate synthetase-II is located in:

Options :

- 1. ✖ Mitochondrial matrix
- 2. ✖ Intermembrane space
- 3. ✔ Cytosol
- 4. ✖ Plasma membrane
- 5. ✖ Golgi complex

Question Number : 125 Question Id : 959376725 Question Type : MCQ

Correct : 2 Wrong : 1

Which of the following mineral play an important role in blood clotting?

Options :

- 1. ✔ Calcium
- 2. ✖ Zinc
- 3. ✖ Copper
- 4. ✖ Magnesium
- 5. ✖ Manganese

Question Number : 125 Question Id : 959376725 Question Type : MCQ

Correct : 2 Wrong : 1

Which of the following mineral play an important role in blood clotting?

Options :

- 1. ✔ Calcium
- 2. ✖ Zinc
- 3. ✖ Copper
- 4. ✖ Magnesium
- 5. ✖ Manganese

Question Number : 126 Question Id : 959376726 Question Type : MCQ

Correct : 2 Wrong : 1

Identify the principal cations of extracellular and intracellular fluids:



Options :

1. ✖ Calcium, sodium
2. ✖ Magnesium, potassium
3. ✖ Sodium, magnesium
4. ✔ Sodium, potassium
5. ✖ Zinc, magnesium

Question Number : 126 Question Id : 959376726 Question Type : MCQ

Correct : 2 Wrong : 1

Identify the principal cations of extracellular and intracellular fluids:

Options :

1. ✖ Calcium, sodium
2. ✖ Magnesium, potassium
3. ✖ Sodium, magnesium
4. ✔ Sodium, potassium
5. ✖ Zinc, magnesium

Question Number : 127 Question Id : 959376727 Question Type : MCQ

Correct : 2 Wrong : 1

Cytochrome P450s, which participates in detoxification mechanisms are generally located in:

Options :

1. ✔ Endoplasmic reticulum
2. ✖ Golgi complex
3. ✖ Ribosomes
4. ✖ Cytosol
5. ✖ Nucleus

Question Number : 127 Question Id : 959376727 Question Type : MCQ

Correct : 2 Wrong : 1

Cytochrome P450s, which participates in detoxification mechanisms are generally located in:

Options :

1. ✔ Endoplasmic reticulum
2. ✖ Golgi complex
3. ✖ Ribosomes
4. ✖ Cytosol
5. ✖ Nucleus

Question Number : 128 Question Id : 959376728 Question Type : MCQ

Correct : 2 Wrong : 1

Bilirubin content of the serum was determined by:

Options :

1. ✖ Rotheras test
2. ✖ Zaffes test
3. ✖ Paulys test
4. ✔ Ehrlich's test
5. ✖ Sakaguchi test

Question Number : 128 Question Id : 959376728 Question Type : MCQ

Correct : 2 Wrong : 1

Bilirubin content of the serum was determined by:

Options :

1. ✖ Rotheras test
2. ✖ Zaffes test
3. ✖ Paulys test
4. ✔ Ehrlich's test
5. ✖ Sakaguchi test

Question Number : 129 Question Id : 959376729 Question Type : MCQ

Correct : 2 Wrong : 1

A condition of encephalopathy due to hyperbilirubinemia is known as:

Options :

1. ✔ Kernicterus
2. ✖ choluric jaundice
3. ✖ Acholuric jaundice
4. ✖ Icterus
5. ✖ Ketosis

Question Number : 129 Question Id : 959376729 Question Type : MCQ

Correct : 2 Wrong : 1

A condition of encephalopathy due to hyperbilirubinemia is known as:

Options :

1. ✔ Kernicterus
2. ✖ choluric jaundice
3. ✖ Acholuric jaundice
4. ✖ Icterus

5. ✖ Ketosis

Question Number : 130 Question Id : 959376730 Question Type : MCQ

Correct : 2 Wrong : 1

STI-571 (or Gleevec) an anticancerous drug is used for the treatment of:

Options :

1. ✖ Dermatofibrosarcoma protuberans
2. ✖ Colorectal cancer
3. ✔ Chronic myeloid leukemia
4. ✖ Acute promyelocytic leukemia
5. ✖ Hypereosinophilic syndrome

Question Number : 130 Question Id : 959376730 Question Type : MCQ

Correct : 2 Wrong : 1

STI-571 (or Gleevec) an anticancerous drug is used for the treatment of:

Options :

1. ✖ Dermatofibrosarcoma protuberans
2. ✖ Colorectal cancer
3. ✔ Chronic myeloid leukemia
4. ✖ Acute promyelocytic leukemia
5. ✖ Hypereosinophilic syndrome

Question Number : 131 Question Id : 959376731 Question Type : MCQ

Correct : 2 Wrong : 1

Which of the following is the activation mechanism for the development of colon carcinoma?

Options :

1. ✔ Point mutation
2. ✖ Frame shift mutation
3. ✖ Amplification
4. ✖ Translocation
5. ✖ Recombination

Question Number : 131 Question Id : 959376731 Question Type : MCQ

Correct : 2 Wrong : 1

Which of the following is the activation mechanism for the development of colon carcinoma?

Options :

1. ✔ Point mutation
2. ✖ Frame shift mutation



- 3. ✖ Amplification
- 4. ✖ Translocation
- 5. ✖ Recombination

Question Number : 132 Question Id : 959376732 Question Type : MCQ

Correct : 2 Wrong : 1

Which of the following is the general mechanism of action for erythromycin?

Options :

- 1. ✖ Inhibition of a metabolic enzyme
- 2. ✖ Inhibition of cell wall synthesis
- 3. ✔ Disruption of protein synthesis
- 4. ✖ Inhibition of nucleic acid transcription and replication
- 5. ✖ Inhibition of nucleic acid transcription

Question Number : 132 Question Id : 959376732 Question Type : MCQ

Correct : 2 Wrong : 1

Which of the following is the general mechanism of action for erythromycin?

Options :

- 1. ✖ Inhibition of a metabolic enzyme
- 2. ✖ Inhibition of cell wall synthesis
- 3. ✔ Disruption of protein synthesis
- 4. ✖ Inhibition of nucleic acid transcription and replication
- 5. ✖ Inhibition of nucleic acid transcription

Question Number : 133 Question Id : 959376733 Question Type : MCQ

Correct : 2 Wrong : 1

All of the following serum enzymes are elevated in myocardial infarction except:

Options :

- 1. ✔ Alkaline phosphatase
- 2. ✖ Lactate dehydrogenase
- 3. ✖ Aspartate transaminase
- 4. ✖ Creatine kinase
- 5. ✖ SGOT

Question Number : 133 Question Id : 959376733 Question Type : MCQ

Correct : 2 Wrong : 1

All of the following serum enzymes are elevated in myocardial infarction except:

Options :



1. ✓ Alkaline phosphatase
2. ✗ Lactate dehydrogenase
3. ✗ Aspartate transaminase
4. ✗ Creatine kinase
5. ✗ SGOT

Question Number : 134 Question Id : 959376734 Question Type : MCQ  
Correct : 2 Wrong : 1

Liver diagnostic enzyme is:

Options :

1. ✗ Alkaline phosphatase
2. ✗ Acid phosphatase
3. ✓ Alanine transaminase
4. ✗ Amylase
5. ✗ Protease

Question Number : 134 Question Id : 959376734 Question Type : MCQ  
Correct : 2 Wrong : 1

Liver diagnostic enzyme is:

Options :

1. ✗ Alkaline phosphatase
2. ✗ Acid phosphatase
3. ✓ Alanine transaminase
4. ✗ Amylase
5. ✗ Protease

Question Number : 135 Question Id : 959376735 Question Type : MCQ  
Correct : 2 Wrong : 1

Approximately one third of the body water exists in the:

Options :

1. ✗ Kidney and urinary bladder
2. ✗ Blood
3. ✓ Extracellular fluid compartment
4. ✗ Intracellular fluid compartment
5. ✗ Interstitial fluid

Question Number : 135 Question Id : 959376735 Question Type : MCQ  
Correct : 2 Wrong : 1

Approximately one third of the body water exists in the:

Options :

1. ✖ Kidney and urinary bladder
2. ✖ Blood
3. ✔ Extracellular fluid compartment
4. ✖ Intracellular fluid compartment
5. ✖ Interstitial fluid

Question Number : 136 Question Id : 959376736 Question Type : MCQ

Correct : 2 Wrong : 1

Hypernatremia is a condition arises due to:

Options :

1. ✖ Excess potassium
2. ✔ Excess sodium
3. ✖ Deficiency of sodium
4. ✖ Deficiency of potassium
5. ✖ Excess calcium

Question Number : 136 Question Id : 959376736 Question Type : MCQ

Correct : 2 Wrong : 1

Hypernatremia is a condition arises due to:

Options :

1. ✖ Excess potassium
2. ✔ Excess sodium
3. ✖ Deficiency of sodium
4. ✖ Deficiency of potassium
5. ✖ Excess calcium

Question Number : 137 Question Id : 959376737 Question Type : MCQ

Correct : 2 Wrong : 1

Active immunity means:

Options :

1. ✔ Resistance developed after disease
2. ✖ Resistance developed before disease
3. ✖ Resistance developed by birth
4. ✖ Increasing quantity of blood
5. ✖ Increased immune response

Question Number : 137 Question Id : 959376737 Question Type : MCQ

Correct : 2 Wrong : 1

Active immunity means:

Options :

1. ☒ Resistance developed after disease
2. ☐ Resistance developed before disease
3. ☐ Resistance developed by birth
4. ☐ Increasing quantity of blood
5. ☐ Increased immune response

Question Number : 138 Question Id : 959376738 Question Type : MCQ

Correct : 2 Wrong : 1

The antibody IgE and mast cells are associated with:

Options :

1. ☐ Contact hypersensitivity
2. ☐ Immuno florescence tests
3. ☐ Immunodeficiencies
4. ☒ Immediate hypersensitivity
5. ☐ Antibody diversity

Question Number : 138 Question Id : 959376738 Question Type : MCQ

Correct : 2 Wrong : 1

The antibody IgE and mast cells are associated with:

Options :

1. ☐ Contact hypersensitivity
2. ☐ Immuno florescence tests
3. ☐ Immunodeficiencies
4. ☒ Immediate hypersensitivity
5. ☐ Antibody diversity

Question Number : 139 Question Id : 959376739 Question Type : MCQ

Correct : 2 Wrong : 1

Which of the following do not participate in the formation of antigen-antibody complexes?

Options :

1. ☐ Hydrophobic bonds
2. ☒ Covalent bonds
3. ☐ Electrostatic interaction
4. ☐ Vanderwaals forces

5. ✖ Non covalent bonds

Question Number : 139 Question Id : 959376739 Question Type : MCQ

Correct : 2 Wrong : 1

Which of the following do not participate in the formation of antigen-antibody complexes?

Options :

1. ✖ Hydrophobic bonds
2. ✔ Covalent bonds
3. ✖ Electrostatic interaction
4. ✖ Vanderwaals forces
5. ✖ Non covalent bonds

Question Number : 140 Question Id : 959376740 Question Type : MCQ

Correct : 2 Wrong : 1

Humoral immunity is mediated by:

Options :

1. ✔ B cells
2. ✖ Macrophages
3. ✖ T cells
4. ✖ Phagocytes
5. ✖ Mast cells

Question Number : 140 Question Id : 959376740 Question Type : MCQ

Correct : 2 Wrong : 1

Humoral immunity is mediated by:

Options :

1. ✔ B cells
2. ✖ Macrophages
3. ✖ T cells
4. ✖ Phagocytes
5. ✖ Mast cells

Question Number : 141 Question Id : 959376741 Question Type : MCQ

Correct : 2 Wrong : 1

Chromatin is composed of:

Options :

1. ✔ Nucleic acids and protein
2. ✖ Only nucleic acids
3. ✖ Only protein



- 4. ✖ Peptide fragments
- 5. ✖ Nucleotide fragments

Question Number : 141 Question Id : 959376741 Question Type : MCQ

Correct : 2 Wrong : 1

Chromatin is composed of:

Options :

- 1. ✔ Nucleic acids and protein
- 2. ✖ Only nucleic acids
- 3. ✖ Only protein
- 4. ✖ Peptide fragments
- 5. ✖ Nucleotide fragments

Question Number : 142 Question Id : 959376742 Question Type : MCQ

Correct : 2 Wrong : 1

The identification of the transforming principle proved that:

Options :

- 1. ✖ dead bacteria are as lethal as live ones
- 2. ✖ Streptococcus pneumoniae evolved from Pneumococcus
- 3. ✔ genetic information is contained in DNA
- 4. ✖ there is no protein in chromosomes
- 5. ✖ genetic information was transmitted by a polysaccharide

Question Number : 142 Question Id : 959376742 Question Type : MCQ

Correct : 2 Wrong : 1

The identification of the transforming principle proved that:

Options :

- 1. ✖ dead bacteria are as lethal as live ones
- 2. ✖ Streptococcus pneumoniae evolved from Pneumococcus
- 3. ✔ genetic information is contained in DNA
- 4. ✖ there is no protein in chromosomes
- 5. ✖ genetic information was transmitted by a polysaccharide

Question Number : 143 Question Id : 959376743 Question Type : MCQ

Correct : 2 Wrong : 1

Which statement about the elongation of the lagging strand during DNA replication is correct?

Options :

- 1. ✖ It is synthesized in a 3' --> 5' direction

- 2. ✖ It progresses (grows) toward the replication fork.
- 3. ✔ It requires a short RNA primer to proceed.
- 4. ✖ It is synthesized by DNA ligase.
- 5. ✖ It is synthesized continuously.

Question Number : 143 Question Id : 959376743 Question Type : MCQ  
Correct : 2 Wrong : 1

Which statement about the elongation of the lagging strand during DNA replication is correct?

Options :

- 1. ✖ It is synthesized in a 3' --> 5' direction
- 2. ✖ It progresses (grows) toward the replication fork.
- 3. ✔ It requires a short RNA primer to proceed.
- 4. ✖ It is synthesized by DNA ligase.
- 5. ✖ It is synthesized continuously.

Question Number : 144 Question Id : 959376744 Question Type : MCQ  
Correct : 2 Wrong : 1

mRNAs and some specialized RNAs are synthesized by:

Options :

- 1. ✖ RNA polymerase I
- 2. ✔ RNA polymerase II
- 3. ✖ RNA polymerase III
- 4. ✖ DNA polymerase I
- 5. ✖ Gyrase

Question Number : 144 Question Id : 959376744 Question Type : MCQ  
Correct : 2 Wrong : 1

mRNAs and some specialized RNAs are synthesized by:

Options :

- 1. ✖ RNA polymerase I
- 2. ✔ RNA polymerase II
- 3. ✖ RNA polymerase III
- 4. ✖ DNA polymerase I
- 5. ✖ Gyrase

Question Number : 145 Question Id : 959376745 Question Type : MCQ  
Correct : 2 Wrong : 1

In eukaryotes, translation is initiated by binding of ribosome to:

Options :

1. ✖ Pribnow box
2. ✖ Hogness box
3. ✔ 5' Cap
4. ✖ Poly A tail
5. ✖ TATA box

Question Number : 145 Question Id : 959376745 Question Type : MCQ

Correct : 2 Wrong : 1

In eukaryotes, translation is initiated by binding of ribosome to:

Options :

1. ✖ Pribnow box
2. ✖ Hogness box
3. ✔ 5' Cap
4. ✖ Poly A tail
5. ✖ TATA box

Question Number : 146 Question Id : 959376746 Question Type : MCQ

Correct : 2 Wrong : 1

In terms of lac operon regulation, what happens when E. coli is grown in medium containing both glucose and lactose?

Options :

1. ✖ Both CAP and the lac repressor are bound to the DNA.
2. ✖ CAP is bound to the DNA but the lac repressor is not.
3. ✖ Lac repressor is bound to the DNA but CAP is not.
4. ✔ Neither CAP nor the lac repressor are bound to the DNA.
5. ✖ Lac repressor is bound to the DNA.

Question Number : 146 Question Id : 959376746 Question Type : MCQ

Correct : 2 Wrong : 1

In terms of lac operon regulation, what happens when E. coli is grown in medium containing both glucose and lactose?

Options :

1. ✖ Both CAP and the lac repressor are bound to the DNA.
2. ✖ CAP is bound to the DNA but the lac repressor is not.
3. ✖ Lac repressor is bound to the DNA but CAP is not.



4. ✓ Neither CAP nor the lac repressor are bound to the DNA.
5. ✗ Lac repressor is bound to the DNA.

Question Number : 147 Question Id : 959376747 Question Type : MCQ

Correct : 2 Wrong : 1

Who discovered restriction enzymes?

Options :

1. ✓ Nathan, arber and smith,1970
2. ✗ Watson, crick and wilikins,1970
3. ✗ Boyer and cohen, 1975
4. ✗ Paul berg,1975
5. ✗ Arber and smith,1970

Question Number : 147 Question Id : 959376747 Question Type : MCQ

Correct : 2 Wrong : 1

Who discovered restriction enzymes?

Options :

1. ✓ Nathan, arber and smith,1970
2. ✗ Watson, crick and wilikins,1970
3. ✗ Boyer and cohen, 1975
4. ✗ Paul berg,1975
5. ✗ Arber and smith,1970

Question Number : 148 Question Id : 959376748 Question Type : MCQ

Correct : 2 Wrong : 1

What hormone is commonly expressed in transgenic livestock to increase their growth and productivity?

Options :

1. ✗ clotting factor VIII
2. ✓ bGH (bovine growth hormone)
3. ✗ Erythropoietin
4. ✗ Insulin
5. ✗ Glucagon

Question Number : 148 Question Id : 959376748 Question Type : MCQ

Correct : 2 Wrong : 1

What hormone is commonly expressed in transgenic livestock to increase their growth and productivity?

Options :



1. ✖ clotting factor VIII
2. ✔ bGH (bovine growth hormone)
3. ✖ Erythropoietin
4. ✖ Insulin
5. ✖ Glucagon

Question Number : 149 Question Id : 959376749 Question Type : MCQ

Correct : 2 Wrong : 1

Which of the following technique is suitable for identifying mRNA molecule in a sample?

Options :

1. ✖ Western blotting
2. ✖ Southern blotting
3. ✔ Northern blotting
4. ✖ Eastern blotting
5. ✖ PCR

Question Number : 149 Question Id : 959376749 Question Type : MCQ

Correct : 2 Wrong : 1

Which of the following technique is suitable for identifying mRNA molecule in a sample?

Options :

1. ✖ Western blotting
2. ✖ Southern blotting
3. ✔ Northern blotting
4. ✖ Eastern blotting
5. ✖ PCR

Question Number : 150 Question Id : 959376750 Question Type : MCQ

Correct : 2 Wrong : 1

The first drug produced using recombinant DNA technology is used to treat:

Options :

1. ✖ Hemophilia
2. ✖ Dwarfism
3. ✖ Heart attack
4. ✔ Diabetes
5. ✖ Cancer

Question Number : 150 Question Id : 959376750 Question Type : MCQ

Correct : 2 Wrong : 1

The first drug produced using recombinant DNA technology is used to treat:

Options :

1. ✖ Hemophilia
2. ✖ Dwarfism
3. ✖ Heart attack
4. ✔ Diabetes
5. ✖ Cancer



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