



Navodaya Vidyalaya Samiti

(An Autonomous Body Under MHRD) Government of India

Roll No.	
Participant Name	
Test Center Name	
Test Date	
Test Time	
Subject	PGT CHEMISTRY

Section : General (English & Hindi)

Q.1 Select the most appropriate synonym of the given word.

CONCEAL

- Ans
- 1. hide
 - 2. reveal
 - 3. repel
 - 4. compel

Question ID : 5096477014
Status : Answered
Chosen Option : 2

Q.2 Select the correctly spelt word.

- Ans
- 1. mischiefous
 - 2. mischievous
 - 3. mischevious
 - 4. mischeivous

Question ID : 5096477017
Status : Answered
Chosen Option : 2

Q.3 The following sentence has been divided into three parts. One of them may be incorrect. Choose the incorrect part from the given options. If there is no error, mark 'No error' as the answer.

I could not understand /his speech /so I did not know French.

- Ans
- 1. No error
 - 2. so I did not know French
 - 3. I could not understand
 - 4. his speech

Question ID : 5096477022
Status : Answered
Chosen Option : 2

Q.4

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Select the most appropriate option to fill in the blank.

We took the metro _____ reach the station in time.

- Ans
- 1. as long as
 - 2. while
 - 3. in order to
 - 4. in case

Question ID : 5096477010
Status : Answered
Chosen Option : 3

Q.5 Select the most appropriate phrase to replace the underlined word in the given sentence.

The operation has been successful. Your father will certainly recover.

- Ans
- 1. pull up
 - 2. pull out
 - 3. pull in
 - 4. pull through

Question ID : 5096477019
Status : Answered
Chosen Option : 1

Q.6 Select the most appropriate idiom to fill in the blank.

He is _____ if he fails at this juncture.

- Ans
- 1. not worth his salt
 - 2. not fit to hold a candle
 - 3. out of spirits
 - 4. a new kid on the block

Question ID : 5096477021
Status : Answered
Chosen Option : 2

Q.7 Select the most appropriate option to fill in the blank. If no word is required select "No word required".

Drive cautiously. _____ traffic police is quite active here.

- Ans
- 1. An
 - 2. The
 - 3. No word required
 - 4. A

Question ID : 5096477003
Status : Answered
Chosen Option : 2

Q.8

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Select the most appropriate option to fill in the blank.

She is _____ minister of the Central Government.

- Ans
- 1. the best and most honest
 - 2. best and the most honest
 - 3. a best and honest
 - 4. the best and honest

Question ID : 5096477012
Status : Answered
Chosen Option : 4

Q.9 Select the most appropriate phrase to fill in the blank.

Nobody knows what will _____ next.

- Ans
- 1. turn out
 - 2. turn up
 - 3. turn off
 - 4. turn in

Question ID : 5096477020
Status : Answered
Chosen Option : 1

Q.10 Select the most appropriate option to fill in the blank.

We have been waiting for the bus _____ ten minutes.

- Ans
- 1. by
 - 2. from
 - 3. for
 - 4. since

Question ID : 5096477005
Status : Answered
Chosen Option : 4

Q.11 Select the most appropriate ANTONYM of the given word.

TENDER

- Ans
- 1. coarse
 - 2. smooth
 - 3. soft
 - 4. gentle

Question ID : 5096477016
Status : Answered
Chosen Option : 1

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Q.12 Select the word that takes *-some* as a suffix to form an adjective.
(Some change may be required in the spelling.)

- Ans
- 1. trouble
 - 2. comfort
 - 3. sense
 - 4. wonder

Question ID : 5096477011
Status : Answered
Chosen Option : 1

Q.13 Select the most appropriate option to fill in the blank.

These days he _____ his father in business.

- Ans
- 1. had been helping
 - 2. helps
 - 3. is helping
 - 4. helped

Question ID : 5096477007
Status : Answered
Chosen Option : 3

Q.14 Select the most appropriate synonym of the given word.

DIVINE

- Ans
- 1. royal
 - 2. heavenly
 - 3. spiritual
 - 4. earthly

Question ID : 5096477013
Status : Answered
Chosen Option : 2

Q.15 Select the most appropriate option to fill in the blank.

There was noise all around _____ I was not disturbed.

- Ans
- 1. but
 - 2. because
 - 3. so
 - 4. although

Question ID : 5096477009
Status : Answered
Chosen Option : 1

Q.16

Select the most appropriate option to fill in the blank.

The soldier challenged _____ enemy in _____ loud voice.

- Ans
- 1. an, a
 - 2. an, the
 - 3. the, a
 - 4. the, the

Question ID : 5096477004
Status : Answered
Chosen Option : 3

Q.17 Select the most appropriate ANTONYM of the given word.

DECREASE

- Ans
- 1. enhance
 - 2. encroach
 - 3. ensure
 - 4. enforce

Question ID : 5096477015
Status : Answered
Chosen Option : 1

Q.18 Select the most appropriate option to fill in the blank.

You _____ TV since 7 p.m. Now go and study.

- Ans
- 1. had watched
 - 2. watch
 - 3. watched
 - 4. have been watching

Question ID : 5096477008
Status : Answered
Chosen Option : 4

Q.19 Select the most appropriate option to fill in the blank.

An angry bull rushed _____ the children playing _____ the street.

- Ans
- 1. on, at
 - 2. at, in
 - 3. into, into
 - 4. for, on

Question ID : 5096477006
Status : Answered
Chosen Option : 2

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Q.20 Select the INCORRECTLY spelt word.

- Ans
- 1. scientific
 - 2. scheme
 - 3. sceptic
 - 4. scholastic

Question ID : 5096477018
Status : Answered
Chosen Option : 1

Q.21 स्वर्गगत का समास विग्रह है:

- Ans
- 1. स्वर्ग को गत
 - 2. स्वर्ग में स्थित
 - 3. स्वर्ग में बैठा
 - 4. स्वर्ग जाने वाला

Question ID : 5096477039
Status : Answered
Chosen Option : 4

Q.22 कौन से समूह में सभी शब्द पर्याय हैं?

- Ans
- 1. जल दुग्ध मनुज
 - 2. युवा यम दानवीर
 - 3. हस्ती मति सूरा
 - 4. संग्राम समर रण

Question ID : 5096477028
Status : Answered
Chosen Option : 4

Q.23 अनु + इति की संधि है:

- Ans
- 1. अनुइति
 - 2. अन्विति
 - 3. अनुवीती
 - 4. अन्वीती

Question ID : 5096477035
Status : Answered
Chosen Option : 2

Q.24 बहुवचन शब्द है:

- Ans
- 1. धेनु
 - 2. रीतियाँ

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3. वस्तु
 4. गुड़िया

Question ID : 5096477041
Status : Answered
Chosen Option : 2

Q.25 'निर्मल' का विलोम होगा:

- Ans 1. हरा भरा
 2. मलिन
 3. सफ़ेद
 4. श्वेत

Question ID : 5096477030
Status : Answered
Chosen Option : 2

Q.26 'नेकी कर कुँ में डालना' लोकोक्ति का अर्थ बताइए:

- Ans 1. भलाई न करना
 2. अत्यधिक भलाई करना
 3. भलाई करके भूल जाना
 4. कुँ में जल भरना

Question ID : 5096477033
Status : Answered
Chosen Option : 3

Q.27 बुआ का तत्सम रूप है:

- Ans 1. पितर्ग
 2. पितृश्वसा
 3. पितृपक्ष
 4. पितृ

Question ID : 5096477023
Status : Answered
Chosen Option : 1

Q.28 'भारतेंदु' शब्द में कौनसी संधि है:

- Ans 1. गुण संधि
 2. यण संधि
 3. विसर्ग संधि
 4. वृद्धि संधि

Question ID : 5096477036
Status : Answered
Chosen Option : 2

Q.29 पंडित का पर्याय नहीं है:

- Ans
- 1. विदुर
 - 2. बुद्धिमान
 - 3. विद्वान
 - 4. ज्ञानी

Question ID : 5096477027
Status : Answered
Chosen Option : 1

Q.30 स्त्रीलिंग शब्द है:

- Ans
- 1. निबंध
 - 2. नागरिकता
 - 3. बहुमत
 - 4. विधान

Question ID : 5096477042
Status : Answered
Chosen Option : 2

Q.31 पहचान के लिए तत्सम शब्द होगा:

- Ans
- 1. प्रत्यगामी
 - 2. प्रसनाकूल
 - 3. प्रत्यय
 - 4. प्रत्यभिज्ञान

Question ID : 5096477024
Status : Answered
Chosen Option : 4

Q.32 'वयस्क' का विलोम है:

- Ans
- 1. अवयस्क
 - 2. विधुर
 - 3. बच्चा
 - 4. वृद्ध

Question ID : 5096477029
Status : Answered
Chosen Option : 4

Q.33 कौन सा शब्द तद्भव है:

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- Ans
- 1. नव
 - 2. प्रिय
 - 3. पूर्व
 - 4. नेवला

Question ID : 5096477026
Status : Answered
Chosen Option : 4

Q.34 'अंग अंग ढीला पड़ना' मुहावरे का अर्थ छांटिए:

- Ans
- 1. भागते रहना
 - 2. शरीर में चोट लगना
 - 3. अत्यधिक थक जाना
 - 4. बहुत प्रसन्न होना

Question ID : 5096477031
Status : Answered
Chosen Option : 3

Q.35 किस समास में प्रथम पद संख्यावाचक होता है?

- Ans
- 1. तत्पुरुष समास
 - 2. द्विगु समास
 - 3. अव्ययीभाव समास
 - 4. द्वन्द्व समास

Question ID : 5096477038
Status : Answered
Chosen Option : 2

Q.36 तट तमाल तरुवर बहु छाए में अलंकार है:

- Ans
- 1. श्लेष अलंकार
 - 2. यमक अलंकार
 - 3. रूपक अलंकार
 - 4. अनुप्रास अलंकार

Question ID : 5096477037
Status : Answered
Chosen Option : 4

Q.37 कवि का बहुवचन होगा:

- Ans
- 1. कविएँ
 - 2. कवि झुंड

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✓ 3. कविगण

✗ 4. कविमित्र

Question ID : 5096477040
Status : Answered
Chosen Option : 3

Q.38 शीला गिलास तोड़ दिया। वाक्य का सही रूप है:

Ans ✗ 1. तोड़ दिया शीला ने गिलास।

✗ 2. गिलास शीला ने तोड़ दिया।

✗ 3. गिलास तोड़ दिया शीला ने।

✓ 4. शीला ने गिलास तोड़ दिया।

Question ID : 5096477034
Status : Answered
Chosen Option : 4

Q.39 प्रहेलिका का तद्भव रूप है:

Ans ✓ 1. पहेली

✗ 2. प्रलाप

✗ 3. प्रमाण

✗ 4. प्रश्न

Question ID : 5096477025
Status : Answered
Chosen Option : 1

Q.40 'अपना मतलब निकालना' वाक्यांश के लिए उचित मुहावरा होगा:

Ans ✓ 1. अपना उल्लू सीधा करना

✗ 2. ईंट से ईंट बजाना

✗ 3. आग बबूला होना

✗ 4. आपे से बाहर होना

Question ID : 5096477032
Status : Answered
Chosen Option : 1

Section : General Awareness

Q.1 Who became the acting Prime Minister of India after the death of Jawaharlal Nehru?

Ans ✓ 1. Gulzari Lal Nanda

✗ 2. R. Venkataraman

✗ 3. I.K. Gujaral

✗ 4. Atal Bihari Vajpayee

Question ID : 5096477059
Status : Answered

Chosen Option : 1

Q.2 Pandit Ravi Shankar is associated with which Indian classical instrument?

- Ans
- 1. Shehnai
 - 2. Sitar
 - 3. Tabla
 - 4. Santoor

Question ID : 5096477071
Status : Answered
Chosen Option : 2

Q.3 Which state has decided to rename all the child care institutes being run in the state as 'Jagannath Ashrams'?

- Ans
- 1. Odisha
 - 2. Haryana
 - 3. Bihar
 - 4. Uttarakhand

Question ID : 5096477044
Status : Answered
Chosen Option : 1

Q.4 Which state has launched "Naipunya Ratham", a multi-utility vehicle aimed at taking technology and innovation to remote corners of the state?

- Ans
- 1. Bihar
 - 2. Andhra Pradesh
 - 3. Telangana
 - 4. Arunachal Pradesh

Question ID : 5096477048
Status : Answered
Chosen Option : 3

Q.5 Which of the following fruits has been declared as official fruit of Kerala?

- Ans
- 1. Jackfruit
 - 2. Pineapple
 - 3. Grape
 - 4. Banana

Question ID : 5096477049
Status : Answered
Chosen Option : 2

Q.6 Who among the following was the third Vice-President of India?

- Ans
- 1. Varahagiri Venkata Giri
 - 2. I.K. Gujaral
 - 3. V.P. Singh
 - 4. Charan Singh

Question ID : 5096477061

Status : **Answered**
Chosen Option : **3**

Q.7 Which of the following Articles of the Constitution of India provides provisions for a joint sitting of both Houses of Parliament?

- Ans**
- 1. Article 63
 - 2. Article 108
 - 3. Article 79
 - 4. Article 155

Question ID : **5096477060**
Status : **Answered**
Chosen Option : **3**

Q.8 What was the name of the descendant of Guru Nanak Dev who conducted coronation of the Sikh king Ranjit Singh in 1801?

- Ans**
- 1. Tejpal Singh Bedi
 - 2. Surinder Singh Bedi
 - 3. Harpal Singh Bedi
 - 4. Sahib Singh Bedi

Question ID : **5096477056**
Status : **Answered**
Chosen Option : **4**

Q.9 In which of the following cities was the 105th Indian Science Congress held in March 2018?

- Ans**
- 1. Patna
 - 2. Jaipur
 - 3. Imphal
 - 4. Gurugram

Question ID : **5096477047**
Status : **Answered**
Chosen Option : **1**

Q.10 Where is Hemis National Park, home to snow leopard, located?

- Ans**
- 1. Arunachal Pradesh
 - 2. Sikkim
 - 3. Himachal Pradesh
 - 4. Jammu and Kashmir

Question ID : **5096477068**
Status : **Answered**
Chosen Option : **1**

Q.11 Ant's sting has which of the following?

- Ans**
- 1. Tartaric acid
 - 2. Citric acid
 - 3. Magnesium hydroxide
 - 4. Formic acid

Question ID : 5096477065
Status : Answered
Chosen Option : 4

Q.12 As per the data released by the Sample Registration System for the year 2016, what is the Infant mortality rate in India?

- Ans
- 1. 23 per 1000 live births
 - 2. 43 per 1000 live births
 - 3. 34 per 1000 live births
 - 4. 47 per 1000 live births

Question ID : 5096477067
Status : Answered
Chosen Option : 3

Q.13 A mango tree is an example of:

- Ans
- 1. Pseudotroph
 - 2. Heterotroph
 - 3. Autotroph
 - 4. Ambitroph

Question ID : 5096477066
Status : Answered
Chosen Option : 3

Q.14 Which Governor General devised the Doctrine of Lapse during British rule in India?

- Ans
- 1. Charles Metcalfe
 - 2. Lord Ellenborough
 - 3. Lord Auckland
 - 4. Lord Dalhousie

Question ID : 5096477054
Status : Answered
Chosen Option : 4

Q.15 Which among the following is an important folk music of Karnataka?

- Ans
- 1. Lavani
 - 2. Bihugeet
 - 3. Bhavageete
 - 4. Kummi Paatu

Question ID : 5096477070
Status : Answered
Chosen Option : 1

Q.16 When was "Aspirational district program" launched?

- Ans
- 1. January 2018
 - 2. January 2017
 - 3. June 2017

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✗ 4. June 2018

Question ID : 5096477064
 Status : Answered
 Chosen Option : 1

Q.17 Which British Viceroy of India was associated with the Ilbert Bill enacted in 1884?

- Ans
- ✗ 1. Lord Northbrook
 - ✗ 2. Lord Dufferin
 - ✓ 3. Lord Ripon
 - ✗ 4. Lord Napier

Question ID : 5096477057
 Status : Answered
 Chosen Option : 2

Q.18 Who is the first Indian woman wrestler to win a gold medal in the Senior Asian Championships, held in Kyrgyzstan?

- Ans
- ✗ 1. Babita Kumari
 - ✗ 2. Kavita Devi
 - ✗ 3. Geeta Phogat
 - ✓ 4. Navjot Kaur

Question ID : 5096477052
 Status : Answered
 Chosen Option : 1

Q.19 Which of the following statements is correct?

- Ans
- ✗ 1.
The Speaker of the Lok Sabha is the Supreme Commander of the Defence Forces of India.
 - ✗ 2.
The Vice-President is the Supreme Commander of the Defence Forces of India.
 - ✓ 3.
The President is the Supreme Commander of the Defence Forces of India.
 - ✗ 4.
The Prime Minister is the Supreme Commander of the Defence Forces of India.

Question ID : 5096477058
 Status : Answered
 Chosen Option : 3

Q.20 Which city in Karnataka is/was known for making wooden toys?

- Ans
- ✗ 1. Mandya
 - ✗ 2. Davangere
 - ✓ 3. Channapatna
 - ✗ 4. Tumkur

Question ID : 5096477069
 Status : Answered
 Chosen Option : 1

Q.21 तेनाली रामकृष्ण निम्नलिखित में से किस राजा के दरबार में एक प्रसिद्ध विदूषक कवि थे?

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Ans

1. सदाशिव राय
2. अच्युता देव राय
3. कृष्णदेव राय
4. विरा नरसिंह राय

Question ID : 5096477055
Status : Answered
Chosen Option : 3

Q.22 In which Indian city was Krishi Unnati Mela held in March 2018?

Ans

1. Ahmedabad
2. Jaipur
3. Bhopal
4. New Delhi

Question ID : 5096477063
Status : Answered
Chosen Option : 3

Q.23 When the National Girl Child Day is celebrated every year in India?

Ans

1. October 31
2. July 3
3. January 24
4. November 27

Question ID : 5096477072
Status : Answered
Chosen Option : 4

Q.24 Which of the following cities hosted the first International Conference on Sustainable Water Management?

Ans

1. Meerut
2. Muzaffarpur
3. Mumbai
4. Mohali

Question ID : 5096477046
Status : Answered
Chosen Option : 1

Q.25 निम्नलिखित में से किस अफ्रीकी देश ने 'गित्गा' को अपनी नई राजनीतिक राजधानी घोषित की है?

Ans

1. बुरुण्डी
2. रवांडा
3. कैमरून
4. बोत्सवाना

Question ID : 5096477043
Status : Answered
Chosen Option : 3

Q.26 Which Indian player won the IBSF World Snooker Championship in Doha in March 2018?

- Ans
- 1. Aditya Mehta
 - 2. Yasin Merchant
 - 3. Geet Sethi
 - 4. Pankaj Advani

Question ID : 5096477053
Status : Answered
Chosen Option : 4

Q.27 Divya Patidar Joshi, who was crowned with Mrs. India 2018 title in the Mrs. India My Identity Beauty Pageant, belongs to which of the following states?

- Ans
- 1. Gujarat
 - 2. Uttar Pradesh
 - 3. Madhya Pradesh
 - 4. Maharashtra

Question ID : 5096477045
Status : Answered
Chosen Option : 4

Q.28 Which of the following articles of the Constitution of India deals with the abolition of titles?

- Ans
- 1. Article 18
 - 2. Article 36
 - 3. Article 60
 - 4. Article 39

Question ID : 5096477062
Status : Answered
Chosen Option : 3

Q.29 Which woman gymnast became the first Indian to win a world cup medal by winning a bronze medal in Gymnastics World Cup in Melbourne, Australia in February 2018?

- Ans
- 1. Dipa Karmakar
 - 2. Aruna Reddy
 - 3. Kshipra Joshi
 - 4. Pooja Surve

Question ID : 5096477051
Status : Answered
Chosen Option : 2

Q.30 Who is the author of 'Paramveer Parvane', a book on the bravery of Paramveer Chakra awardees?

- Ans
- 1. Siddharth Dhanvant Shanghvi
 - 2. Prabhakaran Jain
 - 3. Arvind Adiga
 - 4. Kamala Markandaya

Question ID : 5096477050

Status : Answered
Chosen Option : 4

Section : General Aptitude

Q.1 Complete the number series.

64, 216, 512, 1000, _____?

- Ans
- 1. 1724
 - 2. 1728
 - 3. 1725
 - 4. 1721

Question ID : 5096477084
Status : Answered
Chosen Option : 2

Q.2 The efficiency of A is 20 % more than the efficiency of B. Working together, they can complete a certain piece of work in 10 days. In how many days B alone will complete 50 % of that work?

- Ans
- 1. 9
 - 2. 11
 - 3. 10
 - 4. 12

Question ID : 5096477102
Status : Answered
Chosen Option : 4

Q.3 निम्नलिखित शब्दों को सार्थक क्रम में सजाएँ।

धुनाई	कताई	सफाई	कतरन	बिनाई
1	2	3	4	5

- Ans
- 1. 4, 3, 1, 2, 5
 - 2. 3, 5, 2, 1, 4
 - 3. 2, 4, 5, 1, 3
 - 4. 1, 2, 5, 4, 3

Question ID : 5096477080
Status : Answered
Chosen Option : 1

Q.4 निम्नलिखित में से उस शब्द-युग्म का चयन करें जो कुछ मायनों में बाकी सब से अलग है।

- Ans
- 1. उल्लू
 - 2. कोयल
 - 3. तोता
 - 4. चमगादड़

Question ID : 5096477077
Status : Answered
Chosen Option : 4

Q.5 The sum of first 20 terms of $\frac{1}{4 \times 6} + \frac{1}{6 \times 8} + \frac{1}{8 \times 10} + \dots$ is:

- Ans
- 1. $\frac{5}{11}$
 - 2. $\frac{19}{168}$
 - 3. $\frac{5}{44}$
 - 4. $\frac{19}{42}$

Question ID : 5096477089
Status : Answered
Chosen Option : 3

Q.6 Select the word from the following options that CANNOT be formed using the letters of the given word only as many times as the letters have been used in the word.

FRATERNITY

- Ans
- 1. FARTHER
 - 2. REFRAIN
 - 3. NITRATE
 - 4. TRAINER

Question ID : 5096477086
Status : Answered
Chosen Option : 1

Q.7 Select the number-pair that is different from the rest in some respect.

- Ans
- 1. 26 : 78
 - 2. 52 : 117
 - 3. 39 : 104
 - 4. 65 : 120

Question ID : 5096477076
Status : Answered
Chosen Option : 4

Q.8 A person covers 30% of a journey with a speed of 45 km/h, 48% of journey with the speed of 36 km/h and remaining with the speed of 33 km/h. What is his average speed for whole journey in km/h?

- Ans
- 1. 38,5
 - 2. 38
 - 3. 37,5
 - 4. 40.2

Question ID : 5096477101
Status : Answered
Chosen Option : 2

Q.9 In a code language, TREMOR is written as SQFLPQ. How will FATHER be written as in that code?

- Ans
- 1. GZSGDS
 - 2. DCRJCT
 - 3. EBSGFQ

X 4. GBUIFS

Question ID : 5096477087
 Status : Answered
 Chosen Option : 4

Q.10 Select the option that will replace the question mark (?) in the following series.

RNX, PKT, NHP, ?

- Ans**
- X** 1. OIQ
 - X** 2. PJR
 - ✓** 3. LEL
 - X** 4. MGO

Question ID : 5096477078
 Status : Answered
 Chosen Option : 3

Q.11 If '+' means 'subtraction', '÷' means 'division', '-' means 'multiplication' and '*' means 'addition', then what will be the value of the following expression?

$$4 - 3 \times 3 + 2 \div 1$$

- Ans**
- X** 1. 6
 - ✓** 2. 3
 - X** 3. 5
 - X** 4. 8

Question ID : 5096477079
 Status : Answered
 Chosen Option : 2

Q.12 X started from his home and walked 4 km towards the east. From there, he turned left and walked 3 km. How far and in which direction is he from his home?

- Ans**
- X** 1. 4 km, east
 - X** 2. 1 km, south-east
 - ✓** 3. 5 km, north-east
 - X** 4. 7 km, north

Question ID : 5096477085
 Status : Answered
 Chosen Option : 3

Q.13 If in a code language SISTER is coded as RJRUDS, then how will you code BROTHER?

- Ans**
- X** 1. UNFGSSA
 - ✓** 2. ASNUGFS
 - X** 3. NSAUSGF
 - X** 4. SAUNFGS

Question ID : 5096477073
 Status : Answered
 Chosen Option : 2

Q.14 The units' digit in $(53)^{21} + (27)^{35} - (32)^{31}$ is equal to:

Ans

- 1. 4
- 2. 2
- 3. 8
- 4. 6

Question ID : 5096477090
Status : Answered
Chosen Option : 3

Q.15 The average of 11 numbers is 42. The average of first 6 numbers is 45 and the average of last 6 numbers is 48. If the 6th number is excluded, what is the average of remaining numbers?

- Ans**
- 1. 36.6
 - 2. 38.8
 - 3. 43.6
 - 4. 46.5

Question ID : 5096477098
Status : Answered
Chosen Option : 1

Q.16 If $\sqrt{29 - 12\sqrt{5}} = a + b\sqrt{5}$, then the value of $(2a + 3b)$ is:

- Ans**
- 1. 0
 - 2. -1
 - 3. 5
 - 4. -5

Question ID : 5096477091
Status : Answered
Chosen Option : 1

Q.17 The difference between compound interest and simple interest on ₹ 36,000 for 2 years at R% per annum is ₹ 518.40. What is the value of R?

- Ans**
- 1. 10 %
 - 2. 12 %
 - 3. 8 %
 - 4. 14 %

Question ID : 5096477097
Status : Answered
Chosen Option : 2

Q.18 The total number of factors of 2400×7^3 is equal to:

- Ans**
- 1. 30
 - 2. 60
 - 3. 124
 - 4. 144

Question ID : 5096477093
Status : Answered
Chosen Option : 1

Q.19

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Given is a statement followed by three courses of action. Assuming the statement to be true, decide which of the given courses of action logically follow(s) from the statement.

Statement :

A large number of two-wheeler accidents every year result in severe head injuries.

Courses of Action :

- I. Riders should be fined for not wearing helmets.
- II. Government should bear the medical expenses of people injured in road accidents, as accidents occur due to poor infrastructure.
- III. Two-wheelers should be banned.

- Ans**
- 1. Only I follows.
 - 2. Only I and II follow.
 - 3. Only III follows.
 - 4. Only II follows.

Question ID : 5096477081
Status : Answered
Chosen Option : 2

Q.20 A vessel contains 2 litres of pure acid. From this vessel, 200 mL of solution is taken out and replaced by same quantity of water. This process is further repeated two more times. What is the amount of pure acid in the vessel?

- Ans**
- 1. 1446 mL
 - 2. 1400 mL
 - 3. 1458 mL
 - 4. 1428 mL

Question ID : 5096477100
Status : Answered
Chosen Option : 2

Q.21 If $a : 2b = 5 : 6$ and $3a : 2c = 5 : 6$, then $a : b : c$ is equal to:

- Ans**
- 1. 15 : 25 : 27
 - 2. 3 : 5 : 9
 - 3. 5 : 3 : 9
 - 4. 25 : 15 : 27

Question ID : 5096477096
Status : Answered
Chosen Option : 4

Q.22 The sum of digits of the smallest number which is perfect square and is closest to 59678 is:

- Ans**
- 1. 22
 - 2. 26
 - 3. 24
 - 4. 28

Question ID : 5096477088
Status : Answered
Chosen Option : 4

Q.23 What is the sum of digits of the least number which when divided by 18, 24 and 30 leaves the same remainder 8 in each case and is divisible by 19?

- Ans**
- 1. 26

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- 2. 22
- 3. 20
- 4. 24

Question ID : 5096477094
Status : Answered
Chosen Option : 1

Q.24 The Republic Day of India in the year 2013 fell on Saturday. On which day of the week was it celebrated in the year 2017?

- Ans
- 1. Thursday
 - 2. Saturday
 - 3. Tuesday
 - 4. Wednesday

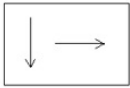
Question ID : 5096477074
Status : Answered
Chosen Option : 1

Q.25 What is the least value of x for which the 7-digit number $6893x54$ is divisible by 22?

- Ans
- 1. 5
 - 2. 7
 - 3. 6
 - 4. 8

Question ID : 5096477095
Status : Answered
Chosen Option : 4

Q.26 Select the correct mirror image of the following figure if the mirror is placed to the right of the figure.



- Ans
- 1.
 - 2.
 - 3.
 - 4.

Question ID : 5096477082
Status : Answered
Chosen Option : 2

Q.27

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A person marks his good 35% above the cost price. He sells 40% of goods at the marked price, 25% of goods at 8% discount and remaining at $x\%$ discount on the marked price. If his overall profit is 24.74%, what is the value of x ?

- Ans
- 1. 16
 - 2. 15
 - 3. 18
 - 4. 20

Question ID : 5096477099
Status : Answered
Chosen Option : 2

Q.28 In a code language, WATER is written as VBSFQ. How will PLANT be written as in that code?

- Ans
- 1. QMBOU
 - 2. OMZOS
 - 3. RNCPV
 - 4. NNCPR

Question ID : 5096477083
Status : Answered
Chosen Option : 2

Q.29 There are five teachers in a school. Arun and Bindu are teaching Hindi and English. Champa and Dhruv are teaching English and Geography. Dhruv and Arun are teaching Mathematics and Hindi. Ekansh and Bindu are teaching History and French.

Which subject is being taught by maximum teachers?

- Ans
- 1. Hindi
 - 2. French
 - 3. Geography
 - 4. English

Question ID : 5096477075
Status : Answered
Chosen Option : 1

Q.30 The value of $1.\overline{7} + 0.2\overline{89} - 1.3\overline{9}$ is equal to:

- Ans
- 1. $0.5\overline{87}$
 - 2. $0.5\overline{36}$
 - 3. $0.6\overline{67}$
 - 4. $0.\overline{667}$

Question ID : 5096477092
Status : Answered
Chosen Option : 3

Section : Teaching Aptitude

Q.1 Identify the type of counselling in which a counsellor plays an important role of being the authority that states a judgment over any problem.

- Ans
- 1. Directive counselling
 - 2. Cognitive behaviour therapy
 - 3. Eclectic counselling

4. Non-directive counselling

Question ID : 5096477119
Status : Answered
Chosen Option : 2

Q.2 निम्नलिखित में से किसे भाषा का सक्रिय कौशल माना जाता है?

- Ans 1. गढ़ाई
 2. बोलना
 3. श्रवण
 4. पठन

Question ID : 5096477110
Status : Answered
Chosen Option : 2

Q.3 Which of the following DOES NOT come under the cognitive domain of Bloom's Taxonomy?

- Ans 1. Synthesis
 2. Application
 3. Evaluation
 4. Characterising

Question ID : 5096477109
Status : Answered
Chosen Option : 3

Q.4 Which of the following mental abilities is NOT included in Kelley's Multi-factor Theory of Intelligence?

- Ans 1. Memory
 2. Perceptual ability
 3. Word fluency
 4. Spatial ability

Question ID : 5096477105
Status : Answered
Chosen Option : 4

Q.5 In the skill of probing questioning in science, when the teacher asks the rationale of the response from the students, it results in:

- Ans 1. seeking further information
 2. refocusing
 3. redirecting
 4. developing critical awareness

Question ID : 5096477116
Status : Answered
Chosen Option : 1

Q.6 जनगणना में सांख्यिकीय प्रतिरूपण और विश्लेषण का उपयोग गणित और निम्नलिखित में से किस विषय के बीच संबंध का एक उदाहरण है?

- Ans 1. संचार

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- ✗ 2. भूगोल
- ✓ 3. मानविकी- अर्थशास्त्र
- ✗ 4. नागरिक शास्त्र तथा नागरिकता

Question ID : 5096477112
Status : Answered
Chosen Option : 3

Q.7 _____ is a teaching strategy that uses several methods to support early readers in gaining skills one by one. The goal of this reading instruction is to establish positive practices that help students develop stronger reading comprehension.

- Ans
- ✗ 1. SQ3R
- ✗ 2. Reading reflection
- ✗ 3. Passive reading method
- ✓ 4. Scaffolding

Question ID : 5096477118
Status : Answered
Chosen Option : 3

Q.8 प्राधिकरण में किसी व्यक्ति के लिंग के आधार पर भेदभाव की अनुपस्थिति, संसाधनों का आवंटन और सेवा तक पहुंच को _____ के रूप में जाना जाता है।

- Ans
- ✓ 1. लैंगिक समानता
- ✗ 2. लैंगिक जागरूकता
- ✗ 3. लैंगिक निष्पक्षता
- ✗ 4. लैंगिक भूमिका

Question ID : 5096477114
Status : Answered
Chosen Option : 1

Q.9 Under Flander's Interaction Analysis Category System of what happens in a classroom when a teacher teaches, the silence or confusion is put under how many categories?

- Ans
- ✓ 1. 1
- ✗ 2. 7
- ✗ 3. 4
- ✗ 4. 2

Question ID : 5096477117
Status : Answered
Chosen Option : 4

Q.10 विशेष शिक्षा में, वह हस्तक्षेप जो विकलांगता को खत्म करने का प्रयास करता है, उसे _____ कहा जाता है।

- Ans
- ✗ 1. तृतीयक हस्तक्षेप
- ✓ 2. उपचारात्मक हस्तक्षेप
- ✗ 3. द्वितीयक हस्तक्षेप
- ✗ 4. निवारक हस्तक्षेप

Question ID : 5096477121
Status : Answered

Chosen Option : 4

Q.11 वह सामाजिक प्रणाली जहां माँ घर की मुखिया होती है और संपत्ति और बेहतर सामाजिक विशेषाधिकारों पर नियंत्रण रखती है, _____ कहलाती है।

- Ans 1. मातृसत्तात्मक समाज
 2. स्वेच्छाचारी समाज
 3. पतिस्थानिक समाज
 4. पितृसत्तात्मक समाज

Question ID : 5096477115

Status : Answered

Chosen Option : 1

Q.12 A mother's attention to her crying child is an example of _____ attention.

- Ans 1. internal
 2. volitional
 3. non-volitional
 4. external

Question ID : 5096477103

Status : Answered

Chosen Option : 1

Q.13 _____ कर्नाटक का एक लोकप्रिय लोक रंगमंच है जिसका इतिहास लगभग 400 वर्ष लंबा है। यह संगीत परंपरा, आंखों को पकड़ने वाली वेशभूषा, नृत्य की प्रामाणिक शैलियों और कामचलाऊ हाव-भावों और अभिनय का एक अनूठा सामंजस्य है, जिसमें इसकी तात्कालिक संवाद अदायगी की व्यापक अपील निहित है।

- Ans 1. स्वांग
 2. यक्षगण
 3. थेरुकोथू
 4. तमाशा

Question ID : 5096477120

Status : Answered

Chosen Option : 3

Q.14 विकासमूलक अक्षमताओं के संदर्भ में निम्न में से कौन सा तथ्य गलत है?

- Ans 1.
इसे समय-समय पर मानसिक कमजोरी, शारीरिक कमजोरी या दोनों के लिए जिम्मेदार ठहराया जाता है।
 2. इसके अनंत तक जारी रहने की संभावना होती है।
 3.
इसकी परिणति जीवन की गतिविधियों के तीन या अधिक क्षेत्रों में प्रकार्यात्मक सीमाओं में होती है।
 4. यह 24 की आयु के बाद प्रदर्शित होता है।

Question ID : 5096477122

Status : Answered

Chosen Option : 4

Q.15 निम्न में से क्या प्रोत्साहन भिन्नता के कौशल का एक घटक नहीं है?

- Ans 1. नकारात्मक अमौखिक सुदृढ़ीकरण

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- 2. शिक्षकों का भाव प्रदर्शन
- 3. शिष्यों का आवागमन
- 4. शिक्षकों का आवागमन

Question ID : 5096477113
Status : Answered
Chosen Option : 3

Q.16 Identify the form of vertical mobility belonging to social mobility from the given options.

- Ans
- 1. International mobility
 - 2. Ascending mobility
 - 3. Party mobility
 - 4. Occupational mobility

Question ID : 5096477106
Status : Answered
Chosen Option : 2

Q.17 धरीन एक 11 वर्ष आयु का लड़का है और वह खेल-कूद व नृत्य दोनों में बहुत अच्छा है। वह नई-नई चीज़ें बनाता है और उसका शारीरिक समन्वयन बहुत अच्छा है। हॉवर्ड गार्डनर के एमआइ (MI) सिद्धांत को दृष्टिगत रखते हुए, दिए गए विवरण के अनुसार बताइए कि धरीन में कौन सी बुद्धिमत्ता हावी है?

- Ans
- 1. अंतर्व्यक्तिक
 - 2. दृश्यात्मक - स्थानिक
 - 3. दैहिक - गतिसंवेदी
 - 4. भाषाई - मौखिक

Question ID : 5096477108
Status : Answered
Chosen Option : 3

Q.18 संपूर्ण साक्षरता अभियान _____ के द्वारा कार्यान्वित किया गया था।

- Ans
- 1. राज्य वयस्क शिक्षा बोर्ड
 - 2. मानव संसाधन एवं विकास मंत्रालय
 - 3. निजी विद्यालय
 - 4. जिलाधिकारी की अधीनस्थ जिला साक्षरता समिति

Question ID : 5096477107
Status : Answered
Chosen Option : 2

Q.19 Identify the unconditioned response from the following.

- Ans
- 1. Loud noise
 - 2. Pain
 - 3. Food
 - 4. Startled

Question ID : 5096477104

Status : Answered
Chosen Option : 4

Q.20 Which of the following is NOT an element of good speech?

- Ans
- 1. Audibility
 - 2. Fluency
 - 3. Obscurity
 - 4. Naturality

Question ID : 5096477111
Status : Answered
Chosen Option : 3

Section : Concerned Subject Knowledge

Q.1 Hybridisation of $[\text{NiCl}_4]^{2-}$ is _____.

- Ans
- 1. sp^2
 - 2. sp^2d
 - 3. sp^3
 - 4. dsp^2

Question ID : 5096477130
Status : Answered
Chosen Option : 3

Q.2 IUPAC name of $\text{K}_4[\text{Fe}(\text{CN})_6]$ is _____.

- Ans
- 1. Potassium hexacyanoferrate(II)
 - 2. Hexacyanoferrate(IV)potassium
 - 3. Hexacyanopotassiumferrate(II)
 - 4. Hexacyanoferrate(II)potassium

Question ID : 5096477145
Status : Answered
Chosen Option : 1

Q.3 Which of the following are the coinage metals?

- Ans
- 1. Cu, Ag, Pt
 - 2. Ir, Pt, Au
 - 3. Ru, Rb, Pd
 - 4. Cu, Ag, Au

Question ID : 5096477138
Status : Answered
Chosen Option : 4

Q.4 What is the decreasing order of bond angle?

- Ans
- 1. $\text{NH}_3 > \text{CH}_4 > \text{H}_2\text{O}$

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2. $\text{H}_2\text{O} > \text{NH}_3 > \text{CH}_4$
3. $\text{CH}_4 > \text{H}_2\text{O} > \text{NH}_3$
4. $\text{CH}_4 > \text{NH}_3 > \text{H}_2\text{O}$

Question ID : 5096477162
Status : Answered
Chosen Option : 4

Q.5 The wave function ψ represents the _____.

- Ans 1. intensity function
2. velocity function
3. probability function
4. amplitude function

Question ID : 5096477169
Status : Answered
Chosen Option : 3

Q.6 $\text{Br} - \text{CH}_2 - \text{CH}_2 - \text{CH}_2 - \text{Br} + \text{Zn} \rightarrow ?$

- Ans 1. Propane
2. Cyclo propene
3. Cyclo propane
4. 1-Propene

Question ID : 5096477153
Status : Answered
Chosen Option : 3

Q.7 A Gouy balance helps in determination of _____.

- Ans 1. magnetic field
2. magnetic permeability
3. Bohr magneton
4. magnetic susceptibility

Question ID : 5096477171
Status : Answered
Chosen Option : 4

Q.8 In which process, NO heat enters or leaves the system during any step?

- Ans 1. Adiabatic process
2. Isothermal process
3. Isobaric process
4. Reversible process

Question ID : 5096477166
Status : Answered
Chosen Option : 1

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Q.9 Which of the following is the correct decreasing order of ionic radii?

- Ans
- 1. $\text{Sn}^{4+} > \text{In}^{3+} > \text{Ca}^{2+} > \text{Sr}^{2+}$
 - 2. $\text{Sn}^{4+} > \text{In}^{3+} > \text{Sr}^{2+} > \text{Ca}^{2+}$
 - 3. $\text{Ca}^{2+} > \text{Sr}^{2+} > \text{In}^{3+} > \text{Sn}^{4+}$
 - 4. $\text{Sr}^{2+} > \text{Ca}^{2+} > \text{In}^{3+} > \text{Sn}^{4+}$

Question ID : 5096477124
Status : Answered
Chosen Option : 4

Q.10 What is the relation between the equilibrium constant (K_{eq}) and free energy (ΔG°)?

- Ans
- 1. $\Delta G^\circ = 2.303 RT \ln K_{eq}$
 - 2. $\Delta G^\circ = -2.303 RT \ln K_{eq}$
 - 3. $\Delta G^\circ = -2.303 RT \log K_{eq}$
 - 4. $\Delta G^\circ = 2.303 RT \log K_{eq}$

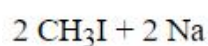
Question ID : 5096477161
Status : Answered
Chosen Option : 3

Q.11 High spin complexes have:

- Ans
- 1. $P = \Delta = 0$
 - 2. $P = \Delta$
 - 3. $P < \Delta$
 - 4. $P > \Delta$

Question ID : 5096477146
Status : Answered
Chosen Option : 4

Q.12 Which product is formed in the following reaction?



- Ans
- 1. $\text{C}_2\text{H}_6 + 2 \text{NaI}$
 - 2. $\text{CH}_4 + 2 \text{NaI}$
 - 3. $\text{C}_2\text{H}_5\text{I} + 2 \text{NaH}$
 - 4. $2 \text{CH}_3\text{Na} + \text{I}_2$

Question ID : 5096477148
Status : Answered
Chosen Option : 1

Q.13 The correct Bragg's equation for a first order reflection is represented by:

- Ans
- 1. $2\lambda = d \sin \theta$
 - 2. $\lambda = 2d \sin \theta$
 - 3. $\lambda = d/2 \sin \theta$
 - 4. $\lambda = d \sin \theta$

Question ID : 5096477180
Status : Answered
Chosen Option : 2

Q.14 Which of the following is correct regarding an exothermic reaction?

- Ans
- 1. $\Delta H = -ve$
 - 2. $\Delta H = 0$
 - 3. $\Delta H = +ve$
 - 4. $\Delta E = 0$

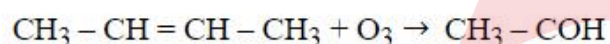
Question ID : 5096477172
Status : Answered
Chosen Option : 1

Q.15 Which of the following compounds has the highest melting point?

- Ans
- 1. Catechol
 - 2. Resorcinol
 - 3. Quinone
 - 4. Hydroquinone

Question ID : 5096477156
Status : Answered
Chosen Option : 4

Q.16 What is the intermediate in following reaction?



- Ans
- 1. Ozonide
 - 2. Ozone
 - 3. Free radical
 - 4. Ozonone

Question ID : 5096477154
Status : Answered
Chosen Option : 1

Q.17 What is the correct decreasing order of boiling point?

- Ans
- 1. Neopentane > Isopentane > Pentane
 - 2. Pentane > Isopentane > Neopentane
 - 3. Isopentane > Neopentane > Pentane
 - 4. Neopentane = Isopentane = Pentane

Question ID : 5096477149
Status : Answered
Chosen Option : 2

Q.18 Which of the following compounds is the milk sugar?

- Ans
- 1. (+) - Fructose
 - 2. (+) - Lactose

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3. (+) - Sucrose

4. (+) - Glucose

Question ID : 5096477159
Status : Answered
Chosen Option : 2

Q.19 According to the Bronsted-Lowry concept, a base is a substance:

Ans 1. which has a tendency to donate a proton.

2. which has a tendency to accept a proton.

3. which has a tendency to donate an electron.

4. which has a tendency to accept an electron.

Question ID : 5096477176
Status : Answered
Chosen Option : 2

Q.20 Which is the highest oxidation state of metal in the fourth period?

Ans 1. Os

2. Cr

3. Fe

4. Mn

Question ID : 5096477144
Status : Answered
Chosen Option : 4

Q.21 Which of the following is an intensive property?

Ans 1. Energy

2. Enthalpy

3. Volume

4. Temperature

Question ID : 5096477177
Status : Answered
Chosen Option : 4

Q.22 What is the number of skeletal electron pairs in B_5H_9 ?

Ans 1. 9

2. 5

3. 6

4. 7

Question ID : 5096477134
Status : Answered
Chosen Option : 1

Q.23 Which of the following amino acid contains the hydroxyl group?

Ans 1. Methionine

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2. Serine
 3. Cysteine
 4. Cystine

Question ID : 5096477158
Status : Answered
Chosen Option : 1

Q.24 Which of the following is a sublimation reaction?

- Ans 1. $S \leftrightarrow L$
 2. $L \leftrightarrow V$
 3. $G \leftrightarrow V$
 4. $S \leftrightarrow V$

Question ID : 5096477168
Status : Answered
Chosen Option : 4

Q.25 Magnetic moment of Cr^{2+} is _____.

- Ans 1. 2.83 BM
 2. 4.90 BM
 3. 5.92 BM
 4. 3.87 BM

Question ID : 5096477128
Status : Answered
Chosen Option : 2

Q.26 Saponification is a process of _____.

- Ans 1. formation of amide
 2. formation of ester
 3. hydrolysis of ester
 4. hydrolysis of amide

Question ID : 5096477150
Status : Answered
Chosen Option : 2

Q.27 What is the correct observed electronic configuration of molybdenum?

- Ans 1. $[Kr] 4d^5 5s^1$
 2. $[Ar] 3d^4 4s^2$
 3. $[Kr] 4d^4 5s^2$
 4. $[Kr] 3d^5 4s^1$

Question ID : 5096477127
Status : Answered
Chosen Option : 1

Q.28 The Gibbs-Helmholtz equation is represented by:

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Ans

1. $\Delta G = \Delta H + T \left(\frac{\partial \Delta H}{\partial T} \right)_p$

2. $\Delta G = \Delta H - T \left(\frac{\partial \Delta G}{\partial T} \right)_p$

3. $\Delta G = \Delta H + T \left(\frac{\partial \Delta G}{\partial T} \right)_p$

4. $\Delta H = \Delta G + T \left(\frac{\partial \Delta G}{\partial T} \right)_p$

Question ID : 5096477181

Status : Answered

Chosen Option : 2

Q.29 Glucose and mannose are _____.

Ans

1. C₄ - Epimers

2. C₅ - Epimers

3. C₃ - Epimers

4. C₂ - Epimers

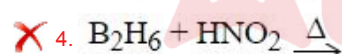
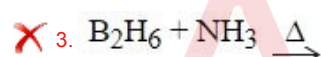
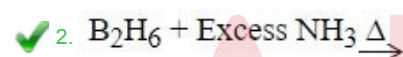
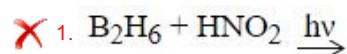
Question ID : 5096477160

Status : Answered

Chosen Option : 4

Q.30 Select the option showing how to prepare (BN)_x from B₂H₆.

Ans



Question ID : 5096477140

Status : Answered

Chosen Option : 2

Q.31 The units of normality are:

Ans

1. mole.ml⁻¹

2. g.equivalent.lit⁻¹

3. mole. Kg⁻¹

4. mole.lit⁻¹

Question ID : 5096477178

Status : Answered

Chosen Option : 2

Q.32 Which is the simplest α-amino acid?

Ans

1. Valine

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- 2. Alanine
- 3. Glycine
- 4. Leucine

Question ID : 5096477151
Status : Answered
Chosen Option : 3

Q.33 Which of the following is colourless?

- Ans
- 1. $[\text{Cr}_2\text{O}_7]^{2-}$
 - 2. MnO_4^-
 - 3. $[\text{Ni}(\text{H}_2\text{O})_6]^{2+}$
 - 4. $[\text{Cu}(\text{PPh}_3)_4]^+$

Question ID : 5096477141
Status : Answered
Chosen Option : 4

Q.34 Which of the following is a diamagnetic complex?

- Ans
- 1. $[\text{Ni}(\text{NH}_3)_6]^{2+}$
 - 2. $[\text{Ni}(\text{H}_2\text{O})_5\text{NH}_3]^{2+}$
 - 3. $[\text{PtCl}_4]^{2-}$
 - 4. $[\text{NiCl}_4]^{2-}$

Question ID : 5096477143
Status : Answered
Chosen Option : 3

Q.35 Which of the following compounds is paramagnetic?

- Ans
- 1. O_2
 - 2. F_2
 - 3. C_2
 - 4. N_2

Question ID : 5096477164
Status : Answered
Chosen Option : 1

Q.36 Calcium carbide is hydrolysed to form:

- Ans
- 1. acetylene
 - 2. ethene
 - 3. methane
 - 4. ethane

Question ID : 5096477147
Status : Answered
Chosen Option : 1

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Q.37 What is the oxidation state of $[\text{Ni}(\text{en})_3]^{2+}$?

- Ans
- 1. +1
 - 2. +2
 - 3. +4
 - 4. +3

Question ID : 5096477132
Status : Answered
Chosen Option : 2

Q.38 Which metal contains 'limonite' mineral?

- Ans
- 1. Cr
 - 2. Fe
 - 3. Co
 - 4. W

Question ID : 5096477137
Status : Answered
Chosen Option : 2

Q.39 Which spectral series is suitable for the Balmer series?

- Ans
- 1. Micro region
 - 2. Ultraviolet region
 - 3. Visible region
 - 4. Infrared region

Question ID : 5096477123
Status : Answered
Chosen Option : 2

Q.40 $\text{CH}_3 - \text{C} \equiv \text{CH} + \text{CH}_3\text{MgCl} \rightarrow ?$

- Ans
- 1. $\text{CH}_3\text{C} \equiv \text{CCH}_3$
 - 2. $\text{CH}_3 - \text{CH}_3$
 - 3. $\text{CH}_3\text{CH} = \text{CH}_2$
 - 4. CH_4

Question ID : 5096477155
Status : Answered
Chosen Option : 1

Q.41 Which of the following DOES NOT obey the EAN rule?

- Ans
- 1. $\text{Mn}_2(\text{CO})_{10}$
 - 2. $\text{Cr}(\text{CO})_6$
 - 3. $\text{V}(\text{CO})_6$
 - 4. $\text{Fe}(\text{CO})_5$

Question ID : 5096477131
Status : Answered
Chosen Option : 3

Q.42 What is the structure of $\text{NiCl}_2(\text{PPh}_3)_2$?

- Ans
- 1. Trigonal planar
 - 2. Linear
 - 3. Square planar
 - 4. Tetrahedral

Question ID : 5096477142
Status : Answered
Chosen Option : 3

Q.43 What is the unit for conductance?

- Ans
- 1. watt
 - 2. siemens
 - 3. ampere
 - 4. ohm

Question ID : 5096477173
Status : Answered
Chosen Option : 2

Q.44 Charles's law is observed at:

- Ans
- 1. constant volume
 - 2. constant volume and pressure
 - 3. constant temperature
 - 4. constant pressure

Question ID : 5096477165
Status : Answered
Chosen Option : 1

Q.45 Ascorbic acid is found in _____.

- Ans
- 1. aspirin
 - 2. vinegar
 - 3. vitamin-C
 - 4. battery acid

Question ID : 5096477163
Status : Answered
Chosen Option : 3

Q.46 What is the stability order of inert gases?

- Ans
- 1. $\text{Kr} > \text{Ar} > \text{Xe}$
 - 2. $\text{Ar} = \text{Kr} = \text{Xe}$
 - 3. $\text{Ar} > \text{Kr} > \text{Xe}$
 - 4. $\text{Xe} > \text{Kr} > \text{Ar}$

Question ID : 5096477136
Status : Answered

Chosen Option : 3

Q.47 Which of the following is the decreasing order of reducing strength of lanthanides?

- Ans
- 1. $\text{Sm}^{2+} > \text{Eu}^{2+} > \text{Yb}^{2+}$
 - 2. $\text{Eu}^{2+} > \text{Yb}^{2+} > \text{Sm}^{2+}$
 - 3. $\text{Sm}^{2+} > \text{Yb}^{2+} > \text{Eu}^{2+}$
 - 4. $\text{Eu}^{2+} > \text{Sm}^{2+} > \text{Yb}^{2+}$

Question ID : 5096477129

Status : Answered

Chosen Option : 1

Q.48 What is the oxidation state of chlorine in Cl_2O_7 ?

- Ans
- 1. -2
 - 2. +7
 - 3. -1
 - 4. +1

Question ID : 5096477135

Status : Answered

Chosen Option : 2

Q.49 The nucleoside composed of adenine with β -D-ribose is called _____.

- Ans
- 1. adenosine
 - 2. deoxyadenosine
 - 3. thymine
 - 4. guanine

Question ID : 5096477152

Status : Answered

Chosen Option : 1

Q.50 The pH of 1×10^{-9} M HCl solution is:

- Ans
- 1. 6.980
 - 2. 6.960
 - 3. 6.979
 - 4. 6.997

Question ID : 5096477174

Status : Answered

Chosen Option : 2

Q.51 Which of the following is the decreasing order of oxidizing power of halogens?

- Ans
- 1. $\text{I} > \text{Br} > \text{Cl} > \text{F}$
 - 2. $\text{I} > \text{Cl} > \text{Br} > \text{F}$
 - 3. $\text{Cl} > \text{F} > \text{Br} > \text{I}$
 - 4. $\text{F} > \text{Cl} > \text{Br} > \text{I}$

Question ID : 5096477126

Status : Answered

Chosen Option : 3

Q.52 Which of the following is the correct increasing order of ionization energy?

- Ans
- 1. He < Ne < Ar < Kr
 - 2. Ar < Kr < Ne < He
 - 3. Kr < Ar < Ne < He
 - 4. He < Ne < Kr < Ar

Question ID : 5096477125

Status : Answered

Chosen Option : 3

Q.53 A eutectic mixture in a binary system have _____ degrees of freedom.

- Ans
- 1. 0
 - 2. 3
 - 3. 1
 - 4. 2

Question ID : 5096477179

Status : Answered

Chosen Option : 4

Q.54 For every 10° C rise of temperature, what is the rate of a reaction?

- Ans
- 1. Attains equilibrium
 - 2. Increase by two fold
 - 3. Decrease by two fold
 - 4. No change

Question ID : 5096477175

Status : Answered

Chosen Option : 2

Q.55 Cyclohexanone reacts with diazomethane to produce _____.

- Ans
- 1. cyclohexane
 - 2. heptanone
 - 3. heptane
 - 4. cyclohexene

Question ID : 5096477157

Status : Answered

Chosen Option : 2

Q.56 In Vander Waal's equation, Pressure correction is represented by:

- Ans
- 1. $P_{\text{corrected}} = P_{\text{observed}} - P_{\text{ideal}}$
 - 2. $P_{\text{ideal}} = P_{\text{observed}} - P_{\text{corrected}}$
 - 3. $P_{\text{ideal}} = P_{\text{corrected}} - P_{\text{observed}}$
 - 4. $P_{\text{ideal}} = P_{\text{observed}} + P_{\text{corrected}}$

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Question ID : 5096477182

Status : Answered

Chosen Option : 4

Q.57 Which of the following has the highest enthalpy of formation?

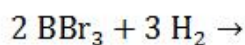
- Ans
- 1. H-F
 - 2. H-H
 - 3. H-Cl
 - 4. H-Br

Question ID : 5096477167

Status : Answered

Chosen Option : 1

Q.58 Select the products of following reaction.



- Ans
- 1. $2 \text{ B} + 6 \text{ HBr}$
 - 2. $\text{B}_2\text{H}_6 + 3 \text{ Br}_2$
 - 3. $\text{B}_4\text{H}_{10} + 2 \text{ HBr}$
 - 4. $\text{B}_2\text{H}_6 + 6 \text{ HBr}$

Question ID : 5096477133

Status : Answered

Chosen Option : 2

Q.59 De Broglie relation is represented by _____.

- Ans
- 1. $\lambda = p \cdot h$
 - 2. $h = \lambda \cdot p$
 - 3. $\lambda = h/p$
 - 4. $\lambda = p/h$

Question ID : 5096477170

Status : Answered

Chosen Option : 3

Q.60 What is the correct increasing order of boiling points of borane?

- Ans
- 1. $\text{B}_6\text{H}_{10} < \text{B}_5\text{H}_{11} < \text{B}_5\text{H}_9 < \text{B}_4\text{H}_{10}$
 - 2. $\text{B}_5\text{H}_9 < \text{B}_4\text{H}_{10} < \text{B}_5\text{H}_{11} < \text{B}_6\text{H}_{10}$
 - 3. $\text{B}_4\text{H}_{10} < \text{B}_5\text{H}_9 < \text{B}_5\text{H}_{11} < \text{B}_6\text{H}_{10}$
 - 4. $\text{B}_6\text{H}_{10} < \text{B}_4\text{H}_{10} < \text{B}_5\text{H}_9 < \text{B}_5\text{H}_{11}$

Question ID : 5096477139

Status : Answered

Chosen Option : 1