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# 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. mischievous
  - 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

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

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

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

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

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 सूर
  - 4. संग्राम समर रण

Question ID : 5096477028  
Status : Answered  
Chosen Option : 4

Q.23 अनु + इति की संधि है:

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

Question ID : 5096477035  
Status : Answered  
Chosen Option : 2

Q.24 बहुवचन शब्द है:

- Ans
- 1. धनु
  - 2. रीतियाँ

- 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

कौन सा शब्द तद्भव है:

- 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. द्वंद्व 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. कविँ
  - 2. कवि झुंड

- ✓ 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 तद्रूप 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. ईट से ईट 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

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

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 105<sup>th</sup> 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

✘ 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

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

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

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:

- 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 6<sup>th</sup> 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  $2400 \times 7^3$  is equal to:

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

Question ID : 5096477093  
 Status : Answered  
 Chosen Option : 1

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

- 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

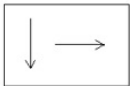
Question ID : 5096477074  
 Status : Answered  
 Chosen Option : 1

**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

A person marks his goods 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

- ✗ 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

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

- 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

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.  $\text{sp}^2$
  - 2.  $\text{sp}^2\text{d}$
  - 3.  $\text{sp}^3$
  - 4.  $\text{dsp}^2$

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

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  $\psi$  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

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<sub>eq</sub>) and free energy ( $\Delta G^\circ$ )?

- 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:

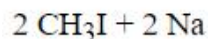
- Ans
- 1.  $P = \Delta = 0$
  - 2.  $P = \Delta$
  - 3.  $P < \Delta$
  - 4.  $P > \Delta$

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.  $\Delta E = 0$

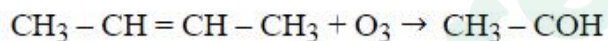
Question ID : 5096477172  
 Status : Answered  
 Chosen Option : 1

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
  - (+) - Lactose



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

- 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

The Gibbs-Helmholtz equation is represented by:

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. C<sub>4</sub> - Epimers

2. C<sub>5</sub> - Epimers

3. C<sub>3</sub> - Epimers

4. C<sub>2</sub> - Epimers

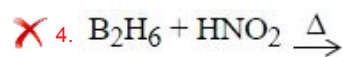
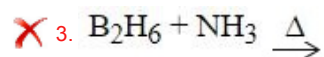
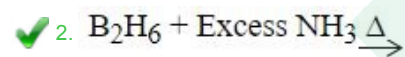
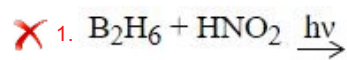
Question ID : 5096477160

Status : Answered

Chosen Option : 4

Q.30 Select the option showing how to prepare (BN)<sub>x</sub> from B<sub>2</sub>H<sub>6</sub>.

Ans



Question ID : 5096477140

Status : Answered

Chosen Option : 2

Q.31 The units of normality are:

Ans

1. mole.ml<sup>-1</sup>

2. g.equivalent.lit<sup>-1</sup>

3. mole. Kg<sup>-1</sup>

4. mole.lit<sup>-1</sup>

Question ID : 5096477178

Status : Answered

Chosen Option : 2

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

Ans

1. Valine

- 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.  $\text{MnO}_4^-$
  - 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.  $\text{O}_2$
  - 2.  $\text{F}_2$
  - 3.  $\text{C}_2$
  - 4.  $\text{N}_2$

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

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.  $\text{CH}_4$

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

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  $\text{Cl}_2\text{O}_7$  ?

- 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  $\beta$ -D-ribose is called \_\_\_\_\_.

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

Question ID : 5096477152

Status : Answered

Chosen Option : 1

Q.50 The  $\text{pH}$  of  $1 \times 10^{-9}$  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

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.  $P_{\text{ideal}} = P_{\text{observed}} + P_{\text{corrected}}$



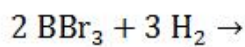
Question ID : 5096477182  
 Status : Answered  
 Chosen Option : 4

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.  $h = \lambda / p$   
 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



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