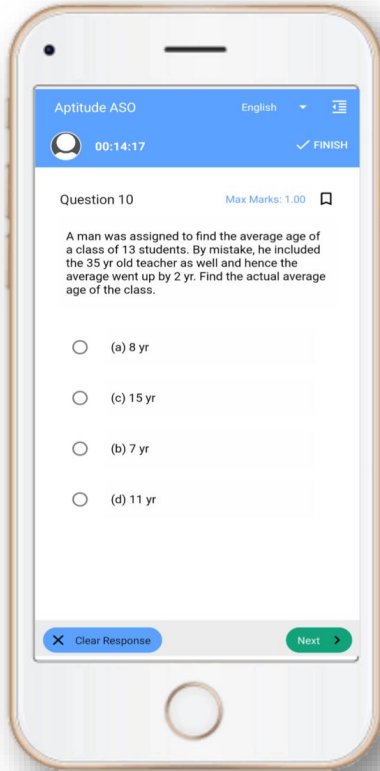


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ODISHA ADARSHA VIDYALAYA SANGATHAN

Participant ID	
Participant Name	
Test Center Name	iON Digital Zone iDZ Banamaliprasad
Test Date	20/05/2019
Test Time	9:00 AM - 12:20 PM
Subject	PGT CHEMISTRY

Section : Language Proficiency Test

Q.1 Change the voice:

Speak the truth.

- Ans
- 1. You are ordered to speak the truth.
 - 2. You need to speak the truth.
 - 3. Let the truth be spoken
 - 4. The truth be spoken

Question ID : 16794324987
Status : Not Answered
Chosen Option : --

Q.2 Meaning of: Eat in

- Ans
- 1. Eat at home
 - 2. Eat at a friend's house.
 - 3. Eat in a restaurant
 - 4. Eat outside

Question ID : 16794324984
Status : Not Answered
Chosen Option : --

Q.3 Grievous means:

- Ans
- 1. Tolerable
 - 2. Hidden
 - 3. Sorrowful
 - 4. Delightful

Question ID : 16794324981
Status : Not Answered
Chosen Option : --



Identify the error in the sentence given below.

Metilda had no gowns, no jewels, nothing. And she loved nothing but that.

- Ans 1. No improvement
 2. Did
 3. Have
 4. Has

Question ID : 16794324993
 Status : Not Answered
 Chosen Option : --

Q.5 Rearrange the shuffled sentence into a meaningful one.

The story a presents dialogue comic Muni and wealthy a businessman English-speaking between,

- Ans 1.
 The story presents a comic dialogue between Muni and a wealthy English-speaking businessman.
 2.
 The story presents a dialogue between Muni and a wealthy English-speaking businessman.
 3.
 The story presents comic dialogue between Muni and wealthy English-speaking businessman.
 4.
 The story presents a dialogue comic between Muni and a wealthy English-speaking businessman.

Question ID : 16794324990
 Status : Answered
 Chosen Option : 1

Q.6 Spot the error.

The coach, along with His assistants, was praised.

- Ans 1. No error
 2. along with His assistants,
 3. The coach,
 4. was praised.

Question ID : 16794324980
 Status : Answered
 Chosen Option : 4

Q.7 Pick out the correctly spelled word.

- Ans 1. Hallucination
 2. Giberish
 3. Galows
 4. Constelation

Question ID : 16794324986

Status : Answered
Chosen Option : 1

Q.8 One who does something for enjoyment or interest, not as a job is known as:

- Ans 1. Amateur
 2. Philanthropist
 3. Ascetic
 4. Lunatic

Question ID : 16794324988
Status : Answered
Chosen Option : 1

Q.9 Identify the meaning of the Underlined phrase.

The ditches had filled up with mud.

- Ans 1. Not filled properly
 2. Filled a little
 3. Half and half
 4. Fill to capacity

Question ID : 16794324985
Status : Answered
Chosen Option : 4

Q.1
0 Antonym of: Incredible

- Ans 1. Believable
 2. Unbelievable
 3. Incur
 4. Dishonest

Question ID : 16794324979
Status : Answered
Chosen Option : 3

Q.1
1 Synonym of: Immunize

- Ans 1. Sensitive
 2. Vulnerable
 3. Inoculate
 4. Jiggle

Question ID : 16794324997
Status : Answered
Chosen Option : 2

Q.1
2 Meaning of: Ambidextrous

- Ans
- 1. A person who does not believe in the existence of God.
 - 2. A person who uses his left or right hand equally.
 - 3. A person who leads an austere life.
 - 4. A person who is for pleasure of eating and drinking

Question ID : 16794324996
Status : Answered
Chosen Option : 2

Q.1
3 Fill in the blank with the appropriate word.

All day yesterday they had read in class _____ the sun.

- Ans
- 1. about
 - 2. upon
 - 3. over
 - 4. with

Question ID : 16794324991
Status : Answered
Chosen Option : 1

Q.1
4 Meaning of the phrase: Put up with:

- Ans
- 1. Like someone
 - 2. Criticize someone
 - 3. Neglect someone
 - 4. Tolerate someone

Question ID : 16794324995
Status : Not Answered
Chosen Option : --

Q.1
5 Change the following sentence into reported speech.

He said to me, "I am feeling unwell today".

- Ans
- 1. He told me that he is feeling unwell that day.
 - 2. He said to me that he was feeling unwell today
 - 3. He told me that he was feeling unwell today.
 - 4. He told me that he was feeling unwell that day.

Question ID : 16794324994
Status : Answered
Chosen Option : 3

Q.1
6 Change the voice:

We teach you

- Ans
- 1. You were taught with us.
 - 2. You were taught by us.
 - 3. Are we taught by you?
 - 4. You are taught by us.

Question ID : 16794324992
Status : Answered
Chosen Option : 4

Q.1
7 Identify the misspelled word.

- Ans
- 1. Questionnaire
 - 2. Piligrimage
 - 3. Laborious
 - 4. Mischievous

Question ID : 16794324983
Status : Answered
Chosen Option : 2

Q.1
8 Spot the error.

Paul was reading newspaper than I entered the room

- Ans
- 1. Than I
 - 2. Paul was
 - 3. Entered the room.
 - 4. Reading newspaper

Question ID : 16794324982
Status : Answered
Chosen Option : 1

Q.1
9 Rearrange the shuffled sentence into a meaningful one.

The poet Shiv.k.kumar draws a contrast _____ western culture and Indian culture.

- Ans
- 1. between
 - 2. to
 - 3. with
 - 4. from

Question ID : 16794324978
Status : Answered

Chosen Option : 1

Q.2
0 Change the following sentence into reported speech.

You said," He is a very good athlete".

- Ans
- 1. You said that he was a very good athlete.
 - 2. You said that he is a very good athlete.
 - 3. You said that he will be a very good athlete.
 - 4. You said he is a very good athlete.

Question ID : 16794324989
Status : Answered
Chosen Option : 2

Q.2
1 ଭିନ୍ନ ଅର୍ଥବୋଧକ ଶବ୍ଦଟି ବାଛି ଲେଖ ।

- Ans
- 1. କ୍ରୋଧ
 - 2. ଶୋଷ
 - 3. ରୋଷ
 - 4. ରାଗ

Question ID : 16794325003
Status : Answered
Chosen Option : 2

Q.2
2 ଏକ ପଦରେ ପ୍ରକାଶ କର - "ବିଷୟ ସମନ୍ୱୟ"

- Ans
- 1. ବିଷୟେ
 - 2. ବିଷୟୀ
 - 3. ବୈଷଜ
 - 4. ବୈଷୟିକ

Question ID : 16794325008
Status : Answered
Chosen Option : 4

Q.2
3 ଓଡ଼ିଆ ସାହିତ୍ୟର ପ୍ରଥମ ପୂର୍ଣ୍ଣାଙ୍ଗ ଉପନ୍ୟାସର ନାଁ କ'ଣ ?

- Ans
- 1. ଛ' ମାଣ ଆଠଗୁଣ୍ଠ
 - 2. କନକଲତା
 - 3. ପଦ୍ମମାଳୀ
 - 4. ମାଟି ମଟାଳ

Question ID : 16794325012
Status : Answered
Chosen Option : 1

Q.2
4 ଲିଙ୍ଗ ପରିବର୍ତ୍ତନ କର - ଓଡ଼ିଆ

- Ans
- 1. ଓଡ଼ିଆଣୀ
 - 2. ଓଡ଼ିଆଣି
 - 3. ଓଡ଼ିଆନୀ
 - 4. ଉଡ଼ିଆଣୀ

Question ID : 16794325009
Status : Answered
Chosen Option : 1

Q.2
5 ଶୁଭ ଶବ୍ଦଟି ବାଛିଲେଖ ।

- Ans
- 1. ତପଶୂନୀ
 - 2. ତପସ୍ୱିନୀ
 - 3. ତପସୀନୀ
 - 4. ତପଃସ୍ୱିନୀ

Question ID : 16794325002
Status : Answered
Chosen Option : 2

Q.2
6 କବି ମାନଙ୍କ ମଧ୍ୟରୁ ସବୁଜ ଯୁଗର କବି କିଏ ?

- Ans
- 1. ସଙ୍କିରାଉତ ରାୟ
 - 2. ଉପେନ୍ଦ୍ରଭଞ୍ଜ
 - 3. ଗୋପବନ୍ଧୁ
 - 4. ଅନୁଦା ଶଙ୍କର

Question ID : 16794325006
Status : Answered
Chosen Option : 1

Q.2
7 “ବକ ଧର୍ମିକ” ର ଅର୍ଥ କ’ଣ ?

- Ans
- 1. ଧର୍ମ ମନୋଭାବ
 - 2. କୌଣସିଟି ନୁହେଁ
 - 3. ବକ ଧର୍ମ କରିବା
 - 4. ଠକ

Question ID : 16794325016
Status : Answered
Chosen Option : 4

Q.2
8 ଶୁଭ ଶବ୍ଦଟି ବାଛି ଲେଖ ।

Ans 1. ଶାରୀରିକ

2. ଶାରୀରୀକ

3. ଶାରୀରୀକ

4. ଶାରୀରିକ

Question ID : 16794325004

Status : Answered

Chosen Option : 1

Q.2
9 ନନାଙ୍କ ପାଞ୍ଜିର ଲେଖକ କିଏ ?

Ans 1. ଗୋପାଳ ଚନ୍ଦ୍ର ପୁନ୍ନାଜ

2. ଫକୀରମୋହନ ସେନାପତି

3. ଚୌଧୁରୀ ହେମକାନ୍ତ ମିଶ୍ର

4. ଗୋବିନ୍ଦ ଚନ୍ଦ୍ର ତ୍ରିପାଠୀ

Question ID : 16794324999

Status : Not Answered

Chosen Option : --

Q.3
0 ପଲ୍ଲବ ଶବ୍ଦର ଅର୍ଥ ଲେଖ ।

Ans 1. କୋମଳ

2. ହାତ

3. କଅଁଳିବା

4. କୋମଳ ପତ୍ର

Question ID : 16794325001

Status : Not Answered

Chosen Option : --

Q.3
1 ଅଶ୍ୱତ୍ଥମାଙ୍କ ପିତାଙ୍କ ନାମ କ'ଣ ?

Ans 1. ଶଲ୍ୟ

2. ଦୃପଦ

3. ଦ୍ରୋଣ

4. କୃପ

Question ID : 16794325013

Status : Answered

Chosen Option : 3

Q.3
2 ଅବଗୁଣ କହିଲେ କ'ଣ ବୁଝାଯାଏ ?

Ans 1. ଦୋଷ

- 2. ମହଗୁଣା
- 3. ବିଶେଷ ଗୁଣା
- 4. ଭଲ ଗୁଣା

Question ID : 16794325010
Status : Not Answered
Chosen Option : --

Q.3
3 ଚିଲିକାରେ ସାୟତନ ଦୃଶ୍ୟ କବିତାଟି କେଉଁ ଛନ୍ଦରେ ରଚିତ ?

- Ans
- 1. ଚନ୍ଦ୍ରକେଳି
 - 2. ନଟବାଣୀ
 - 3. ବଙ୍ଗଳିବା
 - 4. ଗୁଜରୀ

Question ID : 16794325000
Status : Not Answered
Chosen Option : --

Q.3
4 କନ୍ୟାଟି ସୁନ୍ଦରୀ ଅଟେ । ଏଜ୍ଞାରେ 'ସୁନ୍ଦରୀ' କେଉଁ ପ୍ରକାର ବିଶେଷଣ ପଦ ?

- Ans
- 1. ବିଧେୟ ବିଶେଷଣ
 - 2. ଭାବ ବିଶେଷଣ
 - 3. ସର୍ବନାମ ବିଶେଷଣ
 - 4. ବିଶେଷ୍ୟର ବିଶେଷଣ

Question ID : 16794325014
Status : Answered
Chosen Option : 4

Q.3
5 କେଉଁ କୃତିଟି ସଜିବାନନ୍ଦ ରାଉତରାୟଙ୍କର ?

- Ans
- 1. ଶିବଭାଇ
 - 2. ମଶାଣିର ଫୁଲ
 - 3. ବଜ୍ରବାହୁ
 - 4. କାଳାନ୍ତର

Question ID : 16794325011
Status : Not Answered
Chosen Option : --

Q.3
6 ଗୋଦାବରୀଶ ମିଶ୍ରଙ୍କର ଆତ୍ମଚରିତ ନାମ କ'ଣ ?

- Ans
- 1. ବିଶ୍ଵକୁ ଗବାକ୍ଷ
 - 2. କୁମ୍ଭୀର ଚକ

3. ଆର୍ଦ୍ଧଶତାବ୍ଦୀର ଓଡ଼ିଶା ଓ ତହିଁରେ ମୋ ସ୍ଥାନ
 4. ମୋ ପୁରାତତ୍ତ୍ଵର କାହାଣୀ

Question ID : 16794324998
 Status : Answered
 Chosen Option : 3

Q.3
7 'ସଂଯୋଗ' ଶବ୍ଦଟିର ଠିକ୍ ସହିତ ବାଛି ଲେଖ ।

- Ans 1. ସମ୍ + ଯୋଗ
 2. ସମ୍ + ଜୋଗ
 3. ସଂ + ଯୋଗ
 4. ସଂମ + ଯୋଗ

Question ID : 16794325005
 Status : Answered
 Chosen Option : 1

Q.3
8 ଜୋଡ଼ିଏ ଟଙ୍କାରେ ଏକ କିଲୋ ଚାଉଳ - ରେଖାଙ୍କିତ ପଦଟି କେଉଁ ବିଭକ୍ତି ?

- Ans 1. ଝମା
 2. ଶଷ୍ଠୀ
 3. ଉମା
 4. ଷୟା

Question ID : 16794325017
 Status : Answered
 Chosen Option : 3

Q.3
9 ଆବେ ଏହାକି ପ୍ରକାର ଅବ୍ୟୟ ପୁଦ ?

- Ans 1. ସମୋଧନ ସୂଚକ
 2. ପ୍ରଶ୍ନସୂଚକ
 3. ସମ୍ମତି ସୂଚକ
 4. ହେତୁ ବୋଧକ

Question ID : 16794325015
 Status : Answered
 Chosen Option : 1

Q.4
0 ମାତୃଭୂମି ମାତୃଭାଷାରେ ମମତା ଯା ହୃଦେ ଜନମି ନାହିଁ - ଏହା କିଏ କହିଥିଲେ ?

- Ans 1. ରାଧାନାଥ ରାୟ
 2. ଗଙ୍ଗାଧର ମେହେର
 3. ଫକୀର ମୋହନ ସେନାପତି
 4. ମଧୁସୂଦନ ଦାସ

Question ID : 16794325007
Status : Answered
Chosen Option : 1

Section : Current Affairs & Reasoning

Q.1 How many individuals have been conferred the Bharat Ratna Award on the Republic Day, 2019?

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

Question ID : 16794325024
Status : Answered
Chosen Option : 1

Q.2 India attained _____ position in the 52nd International Shooting Sports Federation World Championship, 2018.

- Ans 1. 5th
 2. 6th
 3. 3rd
 4. 2nd

Question ID : 16794325018
Status : Answered
Chosen Option : 3

Q.3 The Pulitzer Prize is related to _____ field.

- Ans 1. Journalism
 2. Sports
 3. Education
 4. Politics

Question ID : 16794325029
Status : Answered
Chosen Option : 1

Q.4 Which of the following sections of the Indian society is covered under Rashtriya Vayassari Yojna (RVY), a scheme for providing Physical Aids and Assisted-living Devices?

- Ans 1. Senior Citizens belonging to APL category
 2. Senior citizens belonging to BPL category and All Super Senior Citizens
 3. Senior citizens belonging to BPL category
 4. Senior Citizens belonging to ST category

Question ID : 16794325032
Status : Answered

Chosen Option : 2

Q.5 Which one of the following players has been awarded Arjun Award, 2018 for contribution in Shooting?

- Ans 1. Ankur Mittal
 2. Col. Ravi Rathore
 3. Shubhankar Sharma
 4. Neeraj Chopra

Question ID : 16794325026

Status : Answered

Chosen Option : 4

Q.6 Who has been appointed as a Governor of Jammu & Kashmir by the President of India in 2018?

- Ans 1. Baby Rani Maurya
 2. Satya Pal Malik
 3. Kaptan Singh Solanki
 4. Tathagata Roy

Question ID : 16794325034

Status : Answered

Chosen Option : 2

Q.7 Who beats Dominic Thiem and won the French Open 2018?

- Ans 1. Rafael Nadal
 2. Roger Federer
 3. Novak Djokovic
 4. Mariano Puerta

Question ID : 16794325023

Status : Answered

Chosen Option : 1

Q.8 Who is the speaker of the 16th Lok Sabha?

- Ans 1. Sumitra Mahajan
 2. Manohar Joshi
 3. Venkaiah Naidu
 4. Meera Kumar

Question ID : 16794325035

Status : Answered

Chosen Option : 1

Q.9 Mary Kom wins record _____ Gold Medal in Women's World Boxing Championship, 2018.

- Ans 1. 4th

2. 3rd

3. 5th

4. 6th

Question ID : 16794325020
Status : Answered
Chosen Option : 3

Q.1
0 The first meeting of the _____ India Space Dialogue was held in Delhi on March 8, 2019.

Ans 1. France

2. Russia

3. United States of America

4. Japan

Question ID : 16794325042
Status : Not Answered
Chosen Option : --

Q.1
1 Who was the Prime Minister of Japan during visit of Prime Minister of India, Narendra Modi in the October, 2018?

Ans 1. Yoshihide Suga

2. Taro Aso

3. Shinzo Abe

4. Shingaru Ishiba

Question ID : 16794325047
Status : Answered
Chosen Option : 3

Q.1
2 The SIDBI (Small Industries Development Bank of India) is a wholly owned subsidiary of _____.

Ans 1. RBI

2. NABARD

3. IDBI

4. HDFC

Question ID : 16794325037
Status : Answered
Chosen Option : 1

Q.1
3 Which company bought the 77 percent shares of Flipkart in 2018?

Ans 1. Reliance

2. Vishal Mega Mart

3. Walmart

4. Amazon

Question ID : 16794325039
Status : Answered
Chosen Option : 4

Q.1 Recently some organizations were demanding for abolishing of Article 35A. Article 35A is related to _____.
4

- Ans
- 1. Telangana
 - 2. Jammu and Kashmir
 - 3. Kerala
 - 4. Arunachal Pradesh

Question ID : 16794325030
Status : Answered
Chosen Option : 2

Q.1 Which countries are involved in a strategic 2 + 2 dialogue?
5

- Ans
- 1. India and Russia
 - 2. India and United States of America
 - 3. India and Japan
 - 4. India and Israel

Question ID : 16794325043
Status : Answered
Chosen Option : 2

Q.1 The Sultan Azlan Shah Cup tournament is related to _____.
6

- Ans
- 1. Golf
 - 2. Field Hockey
 - 3. Cricket- T20
 - 4. Kabaddi

Question ID : 16794325019
Status : Answered
Chosen Option : 2

Q.1 Recently the Government of India announced the merger of three banks. The names of three banks are _____.
7

- Ans
- 1. PNB, Dena bank & AXIS Bank
 - 2. SBI, Vijaya Bank & Syndicate Bank
 - 3. HDFC, Bank of India & Syndicate Bank
 - 4. Dena Bank, Vijaya Bank & Bank of Baroda

Question ID : 16794325038
Status : Answered
Chosen Option : 4

Q.1

8 Which country has maximum share in Foreign Direct Investment Equity Inflows in India for period April to December 2018?

- Ans
- 1. Mauritius
 - 2. Singapore
 - 3. Russia
 - 4. USA

Question ID : 16794325041
Status : Answered
Chosen Option : 2

Q.1
9 Which country hosted the Meeting of G-20 in 2018?

- Ans
- 1. France
 - 2. England
 - 3. Argentina
 - 4. Germany

Question ID : 16794325044
Status : Answered
Chosen Option : 3

Q.2
0 Which of the following countries won the Hockey World Cup (Men), 2018?

- Ans
- 1. Netherland
 - 2. India
 - 3. France
 - 4. Belgium

Question ID : 16794325022
Status : Answered
Chosen Option : 4

Q.2
1 Which movie is India's Official Entry for the Oscars 2018 in the Best Foreign Language Category?

- Ans
- 1. Newton
 - 2. A Death In The Gunj
 - 3. Lipstick Under My Burkha
 - 4. Toilet Ek Prem Katha

Question ID : 16794325025
Status : Answered
Chosen Option : 4

Q.2
2 Donald Trump is the _____ President of the United States of America.

- Ans
- 1. 43rd
 - 2. 44th

✓ 3. 45th

✗ 4. 42nd

Question ID : 16794325045

Status : Not Answered

Chosen Option : --

Q.2
3 Which of the followings is the only constituency where as many as 27,185 Electronic Voting Machines have been used in the first phase of the Lok Sabha election, 2019?

Ans ✓ 1. Nizamabad

✗ 2. Karauli Dholpur

✗ 3. Nagaland

✗ 4. Villupuram

Question ID : 16794325033

Status : Not Answered

Chosen Option : --

Q.2
4 Which city hosted the 10th BRICS Summit, 2018?

Ans ✗ 1. New Delhi

✗ 2. Masco

✗ 3. Sanghai

✓ 4. Johannesburg

Question ID : 16794325046

Status : Answered

Chosen Option : 2

Q.2
5 The fiscal or financial year in India is started from _____.

Ans ✗ 1. 1 October to 30 September

✓ 2. 1 April to 31 March

✗ 3. 1 January to 31 December

✗ 4. 1 July to 30 June

Question ID : 16794325040

Status : Answered

Chosen Option : 2

Q.2
6 Who has been awarded Sahitya Akademi Award for Hindi Language, 2018?

Ans ✗ 1. Lok Nath Upadhyay

✗ 2. Rama Kant Shukla

✓ 3. Chitra Mudgal

✗ 4. Anees Salim

Question ID : 16794325027
Status : Answered
Chosen Option : 3

Q.2
7 What is the interest rate of Public Provident Fund for quarter January to March 2019?

- Ans
- 1. 8.25 per cent
 - 2. 7.50 per cent
 - 3. 7.75 per cent
 - 4. 8.00 per cent

Question ID : 16794325036
Status : Answered
Chosen Option : 1

Q.2
8 Subedar Satish Kumar is related to _____ in sports.

- Ans
- 1. Boxing
 - 2. Shooting
 - 3. Table Tennis
 - 4. Polo

Question ID : 16794325021
Status : Answered
Chosen Option : 4

Q.2
9 Pradhan Mantri Jan Arogya Yojna is aimed to improvement in _____.

- Ans
- 1. Health Sector
 - 2. Mining Sector
 - 3. Sports
 - 4. Education Sector

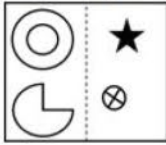
Question ID : 16794325031
Status : Answered
Chosen Option : 1

Q.3
0 Which of the following has been given the Dhyan Chand Award, 2018?

- Ans
- 1. Vijay Sharma
 - 2. Satyadev Prasad
 - 3. C.A. Kuttappa
 - 4. Sukhdev Singh Panu

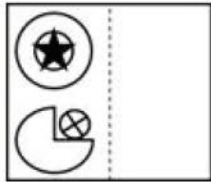
Q.3 How the pattern would appear when the transparent sheet is folded at the dotted line:

1

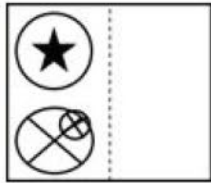


Ans

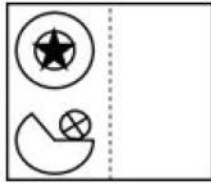
✓ 1.



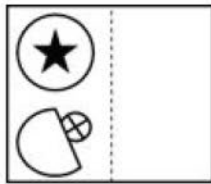
✗ 2.



✗ 3.



✗ 4.



Question ID : 16794325076

Status : Answered

Chosen Option : 1

Q.3 Three words given below they have something common among themselves. Out of given four alternatives choose the most appropriate description about these words.

2

Burrow: Barn: Den

Ans

✗ 1. They are the sounds produced by the animals

✗ 2. They are the names of movements of the animals

✓ 3. They are names of the dwelling places of animals

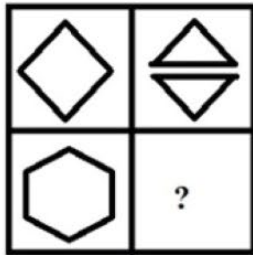
✗ 4. They are the names of young one of the animals

Question ID : 16794325061

Status : Answered

Chosen Option : 3

Which of the answer figures completes the following given figure matrix?



(X)

Answer figures Set:



A B C D

- Ans
- 1. D
 - 2. B
 - 3. C
 - 4. A

Question ID : 16794325075
 Status : Answered
 Chosen Option : 4

Q.3 In a certain coding system SYSTEM is written as UZULBO and MATE is written as OCLB. Then what would be the code for MATES?
 4

- Ans
- 1. OALBU
 - 2. OCLBZ
 - 3. OCLBU
 - 4. OCUBZ

Question ID : 16794325059
 Status : Answered
 Chosen Option : 3

Q.3 Which of the two conclusions can be concluded on the basis of given statements?
 5

Statement:

No paper is a box. All bags are boxes

Conclusions:

- (1) Some boxes are bags
- (2) Some boxes are papers

- Ans
- 1. Both (1) & (2) follow
 - 2. Neither (1) nor (2) follows
 - 3. Only (1) follow

4. Only (2) follows

Question ID : 16794325065
Status : Answered
Chosen Option : 3

Q.3
6 Which of the two conclusions can be concluded on the basis of given statements?

Statement:

Some Dogs are Wolves. All the Wolves are Fox.

Conclusions:

1. All the Fox are Wolves
2. Some Dogs are Fox

Ans 1. Only (1) follow
 2. Both (1) & (2) follow
 3. Only (2) follows
 4. Neither (1) nor (2) follows

Question ID : 16794325064
Status : Answered
Chosen Option : 3

Q.3
7 What would be the next term in the following series

5, 12, 29, 60, 109, ?

Ans 1. 180
 2. 174
 3. 192
 4. 185

Question ID : 16794325049
Status : Not Answered
Chosen Option : --

Q.3
8 Sonali ranks sixth from the top and twenty- three from the bottom in a class. How many students are there in the class?

Ans 1. 40
 2. 28
 3. 32
 4. 30

Question ID : 16794325051
Status : Answered
Chosen Option : 2

Q.3
9 In a certain world, if usual North East becomes West then what would be East of that world in our normal sense?

Ans 1. North West
 2. South East

- 3. North East
- 4. South West

Question ID : 16794325054
 Status : Answered
 Chosen Option : 1

Q.4
 0 Choose the word which is least like others in the group

- Ans
- 1. Gold
 - 2. Platinum
 - 3. Silver
 - 4. Diamond

Question ID : 16794325062
 Status : Answered
 Chosen Option : 4

Q.4
 1 Identify the analogues word to replace '?' as per the relation of first pair of words?

Mars: Phobos:: Earth : ?

- Ans
- 1. Delimos
 - 2. Moon
 - 3. Pluto
 - 4. Sun

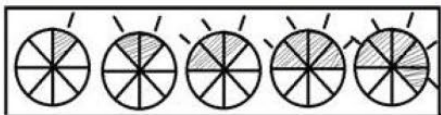
Question ID : 16794325060
 Status : Answered
 Chosen Option : 2

Q.4
 2 Avani ranks sixteenth in a class of 50 students. What is her rank from the last?

- Ans
- 1. 35
 - 2. 36
 - 3. 32
 - 4. 42

Question ID : 16794325052
 Status : Answered
 Chosen Option : 1

Q.4
 3 Identify the rule that the following figure series follows from the options:



- Ans
- 1. Number of lines decreasing
 - 2.

Number of shaded sector inside the circle increasing and number of lines outside are increasing in same number

- 3. Number of sectors of the circle increasing more and more
- 4. Number of circles increasing more and more

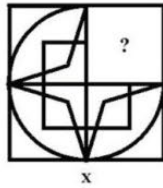
Question ID : 16794325071
Status : Answered
Chosen Option : 2

Q.4
4 What would be the next term in the following series
4, 8, 9, 27, 16, 64, 25, 125, 36, ?

- Ans
- 1. 216
 - 2. 459
 - 3. 342
 - 4. 250

Question ID : 16794325050
Status : Answered
Chosen Option : 1

Q.4
5 Select a figure from amongst the four alternatives which when placed in the blank space of figure (X) would complete the pattern



Ans

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

Question ID : 16794325072
 Status : Answered
 Chosen Option : 4

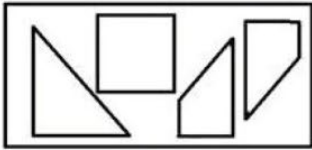
Q.4 Read the following information carefully and answer the given question:

- 6 There Six stores adjacent to each other in a shopping complex viz., Pharmacy, Toy store, Vegetable shop, Novelty Store, Pathology Lab and Grocery store, the arrangement of the stores are as given below.
 Pharmacy is to the left of Pathology Lab, Toy store is to the left of Vegetable store and to the right of Pathology Lab, Grocery Store is to the right of Vegetable store Novelty store is located between Vegetable store and Grocery store.
 Then according to the arrangement what would be the immediate right store to Novelty store?

- Ans 1. Grocery Store
 2. Pathology Lab
 3. Toy Store
 4. Pharmacy

Question ID : 16794325055
 Status : Answered
 Chosen Option : 1

Q.4 Find out which of the figures can be formed from the pieces given in figure X:



(X)

Ans

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

Q.4 The age of a father is twice that of the elder son. If the difference of ages of the two sons is 4 years. If the total age of father and his two sons is 84 years then what is the age of younger son?

- Ans
- 1. 22
 - 2. 88
 - 3. 16
 - 4. 18

Question ID : 16794325066
Status : Answered
Chosen Option : 4

Q.4 In a certain code, VAMPIRE is written as 22-1-13-16-9-18-5 and EVIL is written as 5-22-9-12 then according to the same coding system, how the word MAGIC be written?

- Ans
- 1. 13-1-7-9-3
 - 2. 13-26-7-8-3
 - 3. 14-2-8-10-4
 - 4. 13-2-7-10-3

Question ID : 16794325058
Status : Answered
Chosen Option : 1

Q.5 Read the following information carefully and answer the given question:

0 In Police officers selections according their scores six candidates were shortlisted. The scores of the candidates are given as below:

- Kapil's score is higher than Laxman.
- Manish's score is less than Kapil.
- Nagesh's score is higher than Omar but lesser than Laxman.
- Pavan's score is higher than Kapil.

Then according to the arrangement of score among them, who got the highest score?

- Ans
- 1. Omar
 - 2. Manish
 - 3. Kapil
 - 4. Pavan

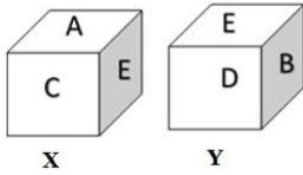
Question ID : 16794325056
Status : Answered
Chosen Option : 4

Q.5 In a certain code, ELECTION is written as (FLFCUIPN) and POLLING is written as QOMLJNH then according to the coding system how the word SELECTION could be written?

- Ans
- 1. TEKEBTHOM
 - 2. TELECTION
 - 3. TEMEDTJOO
 - 4. TFLFCUIPO

Question ID : 16794325057
Status : Answered
Chosen Option : 3

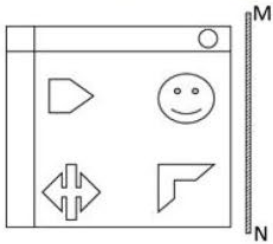
Q.5 2 The figures X and Y shows two different positions of a cube. What is the opposite side for C?



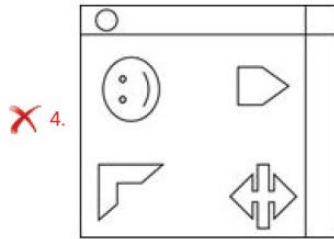
- Ans
- 1. D
 - 2. B
 - 3. E
 - 4. F

Question ID : 16794325069
Status : Answered
Chosen Option : 2

Q.5 3 Identify the mirror image for the following figure where MN represents the mirror:



- Ans
- 1.
 - 2.
 - 3.



Question ID : 16794325073
 Status : Answered
 Chosen Option : 2

Q.5 What would be the total number of digits used in numbering the pages of a book having 342 pages is?
 4

- Ans
- ✓ 1. 918
 - ✗ 2. 909
 - ✗ 3. 729
 - ✗ 4. 684

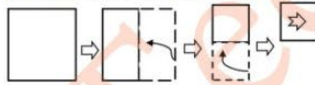
Question ID : 16794325067
 Status : Answered
 Chosen Option : 3

Q.5 Varun walks a distance of 8km towards south. Then turns to his right and walks for another 6km. he again turns right and walks for 8km. at this point he turns to his right and walks for 9km. How far he is from the starting point?
 5

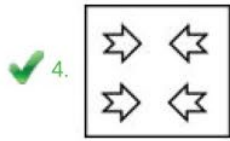
- Ans
- ✗ 1. 1km
 - ✓ 2. 3km
 - ✗ 3. 7km
 - ✗ 4. 5km

Question ID : 16794325053
 Status : Answered
 Chosen Option : 2

Q.5 If the paper is folded and cut as per the shape given below, what would be the result look like after unfolding the paper?
 6



- Ans
- ✗ 1.
 - ✗ 2.
 - ✗ 3.



Question ID : 16794325070
Status : Answered
Chosen Option : 3

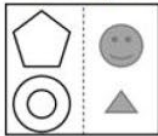
Q.5
7 What would be the next term in the following series

3, 4, 7, 11, 18, 29, ?

- Ans
- ✗ 1. 43
 - ✗ 2. 36
 - ✓ 3. 47
 - ✗ 4. 50

Question ID : 16794325048
Status : Answered
Chosen Option : 3

Q.5
8 How the pattern would appear when the transparent sheet is folded at the dotted line:



Ans

- ✗ 1.
- ✗ 2.
- ✗ 3.
- ✓ 4.

9 Which of the two conclusions can be concluded on the basis of given statements?

Statement:

Some leaves are flowers. All the flowers are fruits.

Conclusion:

1. Some leaves are fruits

2. No flower is leaf

Ans 1. Only (2) follows

2. Both (1) & (2) follow

3. Neither (1) nor (2) follows

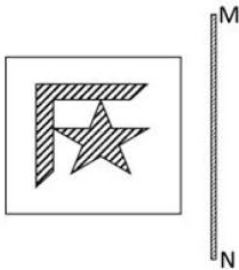
4. Only (1) follow

Question ID : 16794325063

Status : Answered

Chosen Option : 4

Q.6 Identify the mirror image for the following figure where MN represents the mirror:

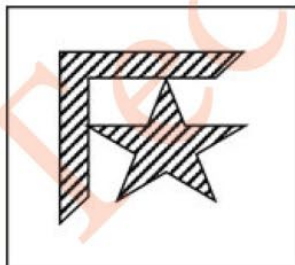


Ans

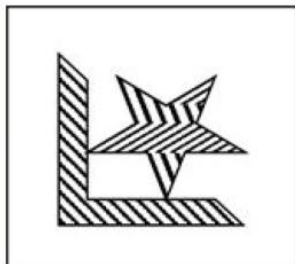
1.

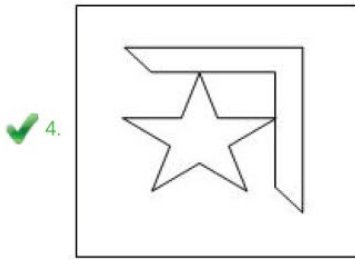


2.



3.





Question ID : 16794325074
 Status : Answered
 Chosen Option : 1

Section : Subject Content & Methodology

Q.1 Time required for 99.9% completion of a first order reaction is nearly:

- Ans ✓ 1. 10 times that required for 50% of the reaction
 ✗ 2. 10 times that required for 25% of the reaction
 ✗ 3. 100 times that required for 90% of the reaction
 ✗ 4. 20 times that required for 50% of the reaction

Question ID : 16794325100
 Status : Answered
 Chosen Option : 1

Q.2 The possible number of diastereomers for D-glucose is:

- Ans ✓ 1. 14
 ✗ 2. 16
 ✗ 3. 7
 ✗ 4. 15

Question ID : 16794325165
 Status : Answered
 Chosen Option : 2

Q.3 Which of these activities does not develop students' self-assessment habits?

- Ans ✗ 1.
 Teachers involving students in developing assessment criteria
 ✓ 2.
 Teacher making brief notes on index cards, self-stick notes, or grids, as well as keeping checklists
 ✗ 3.
 establishing a protocol for students in order to reduce the dissatisfaction on teacher assigned marks or performance level
 ✗ 4. Teachers involving students in peer assessment.

Question ID : 16794325177
 Status : Answered
 Chosen Option : 4

Q.4 A colloidal system in which liquid is dispersed phase and dispersion medium is classified as:

- Ans
- 1. gel
 - 2. sol
 - 3. aerosol
 - 4. emulsion

Question ID : 16794325095
Status : Answered
Chosen Option : 4

Q.5 What would be the enthalpy change of hydrogenation of ethene? $\text{CH}_2 = \text{CH}_2 + \text{H}_2 \rightarrow \text{CH}_3 - \text{CH}_3$

Given: Bond energies (kJ mol^{-1}) C-H = 413, C-C = 347, C = C = 612, H-H = 432.

- Ans
- 1. -186 kJ mol^{-1}
 - 2. $+129 \text{ kJ mol}^{-1}$
 - 3. $+186 \text{ kJ mol}^{-1}$
 - 4. -129 kJ mol^{-1}

Question ID : 16794325114
Status : Answered
Chosen Option : 2

Q.6 Synthetic polymer which resembles natural rubber is:

- Ans
- 1. neoprene
 - 2. glyptal
 - 3. chloroprene
 - 4. nylon

Question ID : 16794325172
Status : Answered
Chosen Option : 1

Q.7 A dichloro derivative (P) on treating with KCN followed by acid hydrolysis and heating gives a monobasic acid (Q) along with the liberation of CO_2 . (Q) on heating with liquid ammonia followed by treating with Br_2/KOH gives (R) which on treating with NaNO_2 and HCl at low temperature followed by oxidation gives a monobasic acid (S) having molecular mass 74. The (R) involved in this process is _____.

- Ans
- 1. tert-butylamine
 - 2. cyclopentylamine
 - 3. propylamine
 - 4. ethylamine

Question ID : 16794325161
Status : Answered
Chosen Option : 1

Q.8 This method of teaching-learning was propounded by W.H Kilpatrick and perfected by J.A Sternson. The base of this method lies in the philosophy of pragmatism. This method emphasizes on building a comprehensive unit around an activity which may be carried out in school or outside. Identify

- Ans
- ✓ 1. Project method
 - ✗ 2. Observation method
 - ✗ 3. Laboratory method
 - ✗ 4. Problem solving method

Question ID : 16794325174

Status : Answered

Chosen Option : 1

Q.9 Which of the following statements is NOT correct?

- Ans
- ✗ 1. F-block elements are called inner transition elements.
 - ✓ 2.
The tendency of d-block elements to form complexes is less than that of f-block elements.
 - ✗ 3.
The oxides and hydroxides of d-block elements are less basic than those of f-block elements.
 - ✗ 4.
The size of atoms and ions of d-block elements are less basic than those of f-block elements

Question ID : 16794325139

Status : Not Answered

Chosen Option : --

Q.1
0 Which of the following is non-ionic surfactant?

Ans

- ✓ 1. $\text{C}_{15}\text{H}_{31}\text{COOCH}-\underset{\text{CH}_2\text{OH}}{\overset{\text{CH}_2\text{OH}}{\text{C}}}-\text{CH}_2\text{OH}$
- ✗ 2. $\text{C}_{15}\text{H}_{31}\text{COONa}$
- ✗ 3. $\text{C}_2\text{H}_5-\text{C}_6\text{H}_4-\text{SO}_3^-\text{Na}^+$
- ✗ 4. $\text{CH}_3(\text{CH}_2)_{11}\text{N}(\text{CH}_3)_3\text{Br}$

The quantum numbers of four electrons are as follows:

	n	l	m	s
electron-1	3	1	1	+1/2
electron-2	3	0	0	+1/2
electron-3	4	0	0	-1/2
electron-4	3	2	2	+1/2

The correct order of decreasing energies of these electrons is:

- Ans
- 1. electron-4 > electron-3 > electron-1 > electron-2
 - 2. electron-1 > electron-2 > electron-4 > electron-3
 - 3. electron-2 > electron-1 > electron-3 > electron-4
 - 4. electron-4 > electron-3 > electron-2 > electron-1

Question ID : 16794325089
Status : Answered
Chosen Option : 3

Q.1 In order to maintain constant temperature of a system involving an ideal gas, heat has to be removed. Then which of the following statements is correct?

- Ans
- 1. There is neither expansion nor contraction of the gas.
 - 2. The gas is being compressed.
 - 3. The gas is undergoing expansion.
 - 4. The gas is performing the work.

Question ID : 16794325115
Status : Not Answered
Chosen Option : --

Q.1 Calculate the wavelength of a α particle having mass 6.6×10^{-27} kg moving with a speed of 10^7 cm/s⁻¹.
($h = 6.6 \times 10^{-34}$ kg m² sc⁻¹)

- Ans
- 1. 1×10^{12} m
 - 2. 1×10^{-10} m
 - 3. 1×10^{-12} m
 - 4. 1×10^{-8} m

Question ID : 16794325086
Status : Answered
Chosen Option : 3

Q.1 If 72 g of silver is deposited during an electrolysis reaction, how much zinc will be deposited by the same magnitude of electric current?

- Ans
- 1. 51.4 g
 - 2. 21.7 g
 - 3. 36.0 g

4. 20.7 g

Question ID : 16794325103
Status : Answered
Chosen Option : 3

Q.1 In a qualitative salt analysis of a mixture of ferric chloride and nickel sulphate using standard reagents, the student
5 added ammonium chloride and aqueous ammonia to a solution of the salt mixture. Further, after filtering H_2S gas was bubbled through the filtrate. Which of the following are the expected sets of observations?

Ans 1.

A yellowish green precipitate of ferric hydroxide and a green-grey precipitate of nickel sulphide.

2.

A white precipitate of nickel hydroxide and a green precipitate of ferric sulphide.

3.

A green precipitate of nickel hydroxide and a white precipitate of ferric sulphide.

4.

A red-brown precipitate of ferric hydroxide and a black precipitate of nickel sulphide.

Question ID : 16794325091
Status : Not Answered
Chosen Option : --

Q.1 How many P-O-P bonds are there in P_4O_{10} ?
6

Ans 1. 4

2. 10

3. 5

4. 6

Question ID : 16794325132
Status : Answered
Chosen Option : 2

Q.1 When 0.1 mole of anhydrous $CuSO_4$ is dissolved in water, the heat evolved is 1.451 kcal. If 0.1 mole of $CuSO_4 \cdot 5H_2O$ is
7 dissolved in water, the heat absorbed is 0.264 kcal. The molar heat of hydration of $CuSO_4$ is:

Ans 1. -17.15 kcal

2. -11.87 kcal

3. 11.87 kcal

4. 17.15 kcal

Question ID : 16794325117
Status : Not Answered
Chosen Option : --

Q.1 When $K_2Cr_2O_7$ is heated with concentrated H_2SO_4 and soluble chloride such as KCl, red vapour of chromyl chloride is
8 evolved. When a salt X is added to the alkaline solution of this red vapour, brick red precipitate is formed. The precipitate is:

Ans 1. $CaCrO_4$

2. Ag_2CrO_4

3. PbCrO_4

4. BaCrO_4

Question ID : 16794325137
Status : Not Answered
Chosen Option : --

Q.1
9 When H_2S is passed through a cupric salt added to excess of KCN, no black precipitate of CuS is obtained. This is due to the presence of copper largely as:

Ans 1. $[\text{Cu}(\text{CN})_4]^{3-}$

2. $[\text{Cu}(\text{CN})_6]^{2-}$

3. CuCN

4. $\text{Cu}(\text{CN})_2$

Question ID : 16794325141
Status : Answered
Chosen Option : 1

Q.2
0 Iodine flakes when rubbed with liquor ammonia give dark brown precipitate of:

Ans 1. $\text{NI}_3 \cdot \text{NH}_3$

2. NI_3

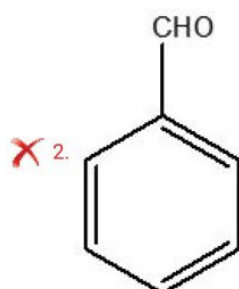
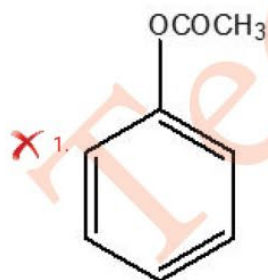
3. NH_4I

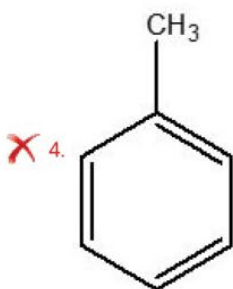
4. $\text{NH}_4 \cdot \text{NI}_3$

Question ID : 16794325130
Status : Not Answered
Chosen Option : --

Q.2
1 Which of the compounds undergoes electrophilic substitution most easily?

Ans





Question ID : 16794325147
Status : Answered
Chosen Option : 3

Q.2
2 Major source of SO_2 is:

- Ans
- ✗ 1. thermal power station
 - ✓ 2. volcanic activity
 - ✗ 3. cement industry
 - ✗ 4. forest fires

Question ID : 16794325150
Status : Answered
Chosen Option : 3

Q.2
3 In the reaction $\text{C}_6\text{H}_6 + \text{D}_2\text{SO}_4 \rightarrow \text{X}$, X is:

- Ans
- ✗ 1. $\text{C}_6\text{H}_5\text{SO}_3\text{D}$
 - ✗ 2. $\text{C}_6\text{H}_5\text{SO}_3\text{H}$
 - ✓ 3. C_6D_6
 - ✗ 4. No reaction

Question ID : 16794325148
Status : Answered
Chosen Option : 1

Q.2
4 A thixotropic gel is characterised by:

- Ans
- ✗ 1. irreversible transformation of gel into sol by stirring
 - ✗ 2. swelling on placing in the dispersion medium
 - ✓ 3. reversible transformation of gel into sol by stirring

4. reversible transformation of gel into sol on heating

Question ID : 16794325098
Status : Not Answered
Chosen Option : --

Q.2
5 The anomeric carbon in D(+) glucose is:

- Ans
- 1. C-5 carbon
 - 2. C-2 carbon
 - 3. C-6 carbon
 - 4. C-1 carbon

Question ID : 16794325166
Status : Answered
Chosen Option : 3

Q.2
6 When m-chloronitrobenzene is treated with sodamide in presence of liquid ammonia, main product is:

- Ans
- 1. *m*-nitroaniline
 - 2. 2,4-dinitroaniline
 - 3. *p*-nitroaniline
 - 4. *o*-nitroaniline

Question ID : 16794325153
Status : Answered
Chosen Option : 1

Q.2
7 Solid iodine is a:

- Ans
- 1. metallic crystal
 - 2. ionic crystal
 - 3. molecular crystal
 - 4. covalent crystal

Question ID : 16794325133
Status : Answered
Chosen Option : 4

Q.2
8 Which of the following ions is paramagnetic?

- Ans
- 1. Sm^{3+} ($Z = 62$)
 - 2. La^{3+} ($Z = 57$)
 - 3. Yb^{2+} ($Z = 70$)
 - 4. Lu^{3+} ($Z = 71$)

Status : Not Answered
Chosen Option : --

Q.2 Classify the following pollutants into primary and secondary pollutants: SO₂, CO₂, O₃, NO and peroxyacetyl nitrate

9 (PAN)

Ans

1. Primary: PAN, O₃
Secondary: CO₂, SO₂, NO
2. Primary: SO₂, O₃, NO
Secondary: CO₂, PAN
3. Primary: SO₂, NO
Secondary: CO₂, PAN, O₃
4. Primary: SO₂, CO₂, NO
Secondary: O₃, PAN

Question ID : 16794325149
Status : Answered
Chosen Option : 4

Q.3 In a laboratory experiment with viscometer, the liquid was sucked with difficulty. The liquid may be:

0

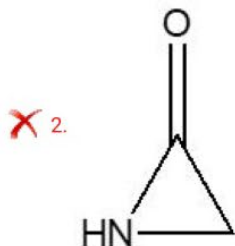
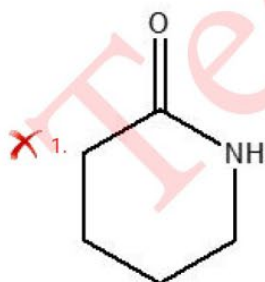
Ans

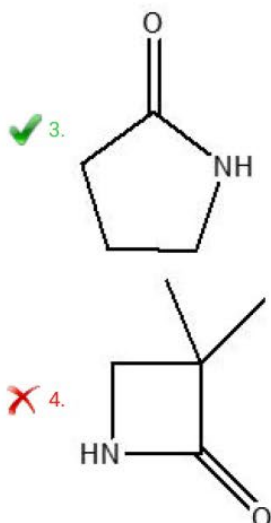
1. Glycerin
2. chloroform
3. toluene
4. ethyl alcohol

Question ID : 16794325083
Status : Answered
Chosen Option : 1

Q.3 The correct structure of lactum from which nylon-4 is synthesised is:

Ans





Question ID : 16794325169

Status : Answered

Chosen Option : 3

Q.3
2 When a substance A reacts with water, it produces a combustible gas B and a solution of substance C in water. When another substance D reacts with this solution of C, it produces the same gas B on warming but D can produce gas B on reaction with dilute sulphuric acid at room temperature. A imparts a pinkish violet colour to a smokeless flame of Bunsen burner: A, B, C and D, respectively are:

- Ans
- ✗ 1. Ca, H₂, Ca(OH)₂, Sn
 - ✗ 2. Na, H₂, NaOH, Al
 - ✓ 3. K, H₂, KOH, Zn
 - ✗ 4. CaC₂, C₂H₂, Ca(OH)₂, Fe

Question ID : 16794325123

Status : Answered

Chosen Option : 3

Q.3
3 Which of the following amino acids can be synthesised in the human body?

- Ans
- ✗ 1. Lysine
 - ✗ 2. Valine
 - ✓ 3. Alanine
 - ✗ 4. Histidine

Question ID : 16794325167

Status : Answered

Chosen Option : 4

Q.3
4 Which of the following molecules contains the shortest bond distance?

- Ans
- ✗ 1. CO₂
 - ✓ 2. N₂
 - ✗ 3. Cl₂

4. NH_3

Question ID : 16794325112
Status : Answered
Chosen Option : 2

Q.3
5 The atomic radii in case of inert gases refers to:

- Ans
- 1. ionic radii
 - 2. covalent radii
 - 3. kinetic diameter
 - 4. Van der Waals' radii

Question ID : 16794325120
Status : Answered
Chosen Option : 4

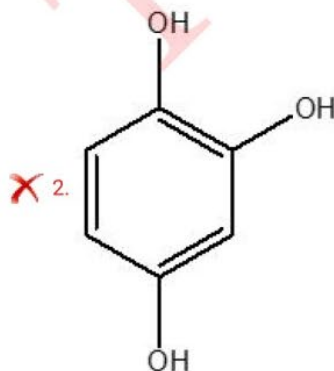
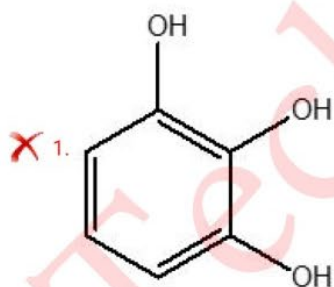
Q.3
6 Ethylenediaminetetraacetic acid (EDTA) is the antidote for lead poisoning. It is administered in the form of:

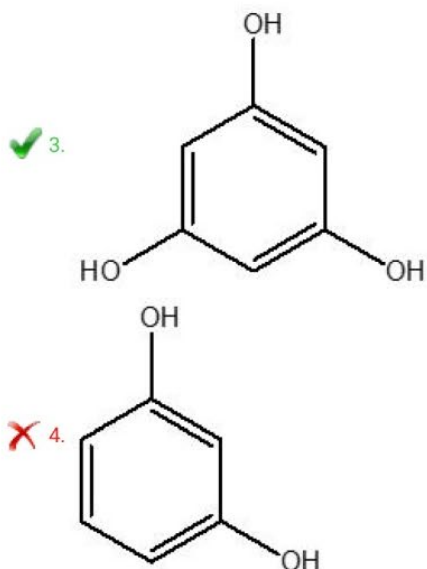
- Ans
- 1. calcium dihydrogen salt
 - 2. free acid
 - 3. sodium dihydrogen salt
 - 4. lead dihydrogen salt

Question ID : 16794325143
Status : Not Answered
Chosen Option : --

Q.3
7 Which of the following compounds can react with hydroxylamine?

Ans





Question ID : 16794325157
Status : Answered
Chosen Option : 4

Q.3
8 The treatment of nitrobenzene with acetyl chloride in the presence of anhydrous AlCl_3 gives:

- Ans
- ✗ 1. 2-nitroacetophenone
 - ✗ 2. 2,4,dinitroacetophenone
 - ✓ 3. 4-nitroacetophenone
 - ✗ 4. 3-nitroacetophenone

Question ID : 16794325162
Status : Answered
Chosen Option : 4

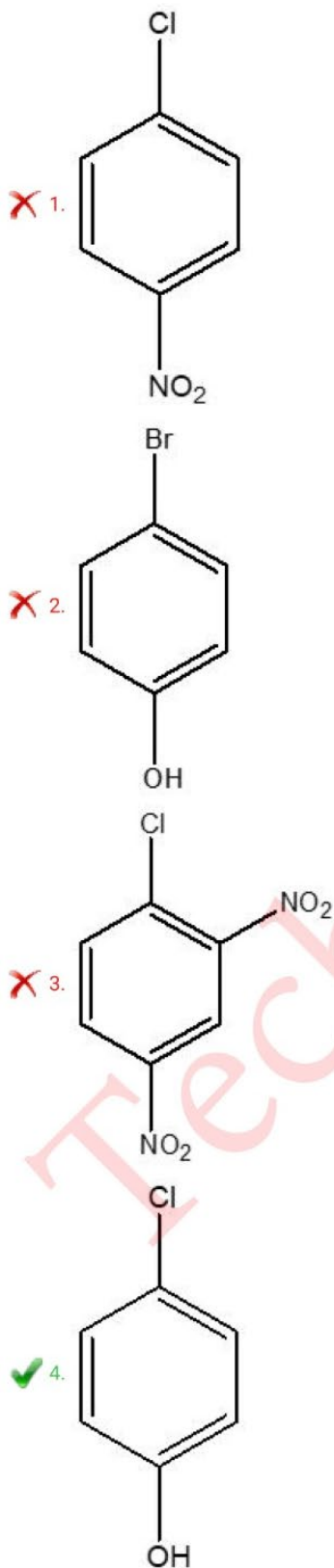
Q.3
9 Which of the following compounds does NOT form Schiff's base?

- Ans
- ✓ 1. $\text{C}_6\text{H}_5-\text{C}(=\text{O})-\text{CH}_2-\text{C}(=\text{O})-\text{C}_6\text{H}_5$
 - ✗ 2. $\text{C}_6\text{H}_5-\text{C}(=\text{O})-\text{CH}_3$
 - ✗ 3. $\text{C}_6\text{H}_5-\text{C}(=\text{O})-\text{C}_6\text{H}_5$
 - ✗ 4. $\text{C}_6\text{H}_5-\text{C}(=\text{O})-\text{CHO}$

Question ID : 16794325160
Status : Not Answered
Chosen Option : --

Q.4 Which of the following is least reactive towards nucleophilic substitution with aq. KOH?

0
Ans



Question ID : 16794325154
Status : Answered
Chosen Option : 3

Q.4
1 Zinc blende, an ore of zinc is _____ coloured.

- Ans
- 1. yellow to orange
 - 2. cream to black
 - 3. green
 - 4. red

Question ID : 16794325129
Status : Not Answered
Chosen Option : --

Q.4
2 A gas mixture contains 50% helium and 50% methane by volume. What is the percentage by mass of he in the mixture?

- Ans
- 1. 40%
 - 2. 50%
 - 3. 80%
 - 4. 20%

Question ID : 16794325080
Status : Answered
Chosen Option : 2

Q.4
3 In $\text{CH}_3\text{CH}_2\text{CH}_2\text{I}$, the C-I bond is formed by the overlapping of:

- Ans
- 1. 2sp^3 - 4p_z orbitals
 - 2. 2sp^3 - 5p_z orbitals
 - 3. 2sp^3 - sp_z orbitals
 - 4. 2sp^3 - 3p_z orbitals

Question ID : 16794325152
Status : Answered
Chosen Option : 2

Q.4
4 In the experiment of qualitative inorganic analysis of third group of cations, if NaCl and NaOH are used in place of NH_4Cl and NH_4OH , what will be the observation?

- Ans
- 1. No precipitation of third group hydroxides but the precipitation of higher group hydroxides
 - 2. Only the precipitation of third group hydroxides
 - 3. No precipitation of third group hydroxides
 - 4. Precipitation of third group hydroxides along with those of higher groups

Chosen Option : 3

Q.4 The edge length of face centred unit cubic cell is 600 pm. If the radius of the cation is 120 pm, the radius of the anion is:

5

- Ans
- 1. 360 pm
 - 2. 180 pm
 - 3. 144 pm
 - 4. 90 pm

Question ID : 16794325084

Status : Not Answered

Chosen Option : --

Q.4 Which of the following gases is least adsorbed on charcoal?

6

- Ans
- 1. CO₂
 - 2. O₂
 - 3. NH₃
 - 4. HCl

Question ID : 16794325094

Status : Answered

Chosen Option : 2

Q.4 The Van der Waals' real gas equation accounts for:

7

- Ans
- 1.
actual size of molecules and hence excluded volume of gas in terms of factor 'a', i.e. smaller the value of 'a', larger the size of gas molecules
 - 2.
actual size of molecules and hence excluded volume of gas in terms of factor 'b', i.e. larger the value of 'b', larger the size of gas molecules
 - 3.
intermolecular attraction between gas molecules, i.e. smaller the value of 'a', stronger the attraction between gas molecules
 - 4.
intermolecular attraction between gas molecules, i.e. smaller the value of 'b', weaker the attraction between gas molecules

Question ID : 16794325082

Status : Not Answered

Chosen Option : --

Q.4 Cellulose is a polymer of:

8

- Ans
- 1. fructose
 - 2. sucrose
 - 3. ribose
 - 4. glucose

Status : Answered
Chosen Option : 4

Q.4 Which of the monomers are used in preparing silicones with linear chain and for chain termination, respectively?

9

- Ans
- 1. $(C_6H_5)_2SiCl_2$ and $(C_6H_5)_3SiCl$
 - 2. CH_3SiCl_2 and CH_3SiCl_3
 - 3. CH_3SiCl_3 and $Si(CH_3)_4$
 - 4. $SiCl_4$ and $(CH_3)_3SiCl$

Question ID : 16794325131
Status : Answered
Chosen Option : 3

Q.5 Chloride of an element gives neutral solution in water. The element belongs to _____ in periodic table.

0

- Ans
- 1. nitrogen family
 - 2. first transition series
 - 3. alkali metals
 - 4. boron family

Question ID : 16794325125
Status : Answered
Chosen Option : 3

Q.5 What is the total number of inner transition elements in the periodic table?

1

- Ans
- 1. 10
 - 2. 30
 - 3. 14
 - 4. 28

Question ID : 16794325135
Status : Answered
Chosen Option : 4

Q.5 Which of the following forms an ideal solution?

2

- Ans
- 1. Chloroform + benzene
 - 2. Ethyl bromide + ethyl iodide
 - 3. Ethyl alcohol + water
 - 4. Benzene + water

Question ID : 16794325107
Status : Answered
Chosen Option : 1

Q.5 The hydrated salt $Na_2CO_3 \cdot nH_2O$ undergoes 26% loss in mass on heating and becomes anhydrous. The value of n is:

3

- Ans
- 1. 7
 - 2. 2
 - 3. 5
 - 4. 10

Question ID : 16794325078
Status : Not Answered
Chosen Option : --

Q.5
4 Which of the following statements is NOT correct?

- Ans 1.

On raising the temperature, rate constant increases in most cases.

2. Molecules acquire greater kinetic energy.

3. The collision frequency increases.

4.

Fraction of molecules possessing energy less than threshold energy increases.

Question ID : 16794325101
Status : Answered
Chosen Option : 4

Q.5
5 A concentration cell is a galvanic cell in which:

- Ans 1.

decrease in free energy in a spontaneous physical process appears as electrical energy

2.

decrease in free energy in spontaneous chemical process appears as electrical energy

3.

a non-spontaneous physical or chemical process produces electrical energy

4.

decrease in free energy in a spontaneous physical or chemical process appears as electrical energy

Question ID : 16794325105
Status : Answered
Chosen Option : 2

Q.5
6 In which of the following processes does the entropy decrease?

- Ans 1. Solid \rightarrow gas

2. $A_{(g)} + B_{(g)} \rightarrow$ mixture

3. sugar + water \rightarrow sugar solution

4. $NH_{3(g)} + HCl_{(g)} \rightarrow NH_4Cl_{(s)}$

Question ID : 16794325116
Status : Answered
Chosen Option : 3

Q.5 Elements X and Y form two different binary compounds XY_2 and XY_4 . When dissolved in 20 g of CS_2 solvent, 1 g of XY_2 lowers the freezing point by $2.5^\circ C$, whereas 1 g of XY_4 lowers the freezing point by $1.5^\circ C$. The molal depression constant for CS_2 is 5. The atomic mass of element Y will be:

- Ans
- 1. 42.64
 - 2. 33.34
 - 3. 12.80
 - 4. 64.42

Question ID : 16794325109
Status : Not Answered
Chosen Option : --

Q.5 The sulphate with highest solubility in water is:

- Ans
- 1. $MgSO_4$
 - 2. $BaSO_4$
 - 3. $CaSO_4$
 - 4. $BeSO_4$

Question ID : 16794325134
Status : Answered
Chosen Option : 1

Q.5 In conductometric titrations, in order to obtain accurate results:

- Ans
- 1. slightly ionised salts should be used
 - 2. anions should be titrated with lithium ions
 - 3.

the reagent added is 10 – 20 times more concentrated than the solution being titrated

- 4. cations should be titrated with acetates

Question ID : 16794325093
Status : Not Answered
Chosen Option : --

Q.6 Among the following substances the lowest vapour pressure is exerted by:

- Ans
- 1. alcohol
 - 2. mercury
 - 3. ether
 - 4. water

Question ID : 16794325106
Status : Answered
Chosen Option : 1

Arrange the elements with the following electronic configurations in increasing order of electron affinity.

- (a) $1s^2 2s^2 2p^5$
 (b) $1s^2 2s^2 2p^4$
 (c) $1s^2 2s^2 2p^6 3s^2 3p^4$
 (d) $1s^2 2s^2 2p^6 3s^2 3p^5$

- Ans 1. (c) < (b) < (a) < (d)
 2. (c) < (b) < (d) < (a)
 3. (b) < (c) < (d) < (a)
 4. (b) < (c) < (a) < (d)

Question ID : 16794325118
 Status : Answered
 Chosen Option : 4

Q.6
 2 The electronic structure of molecule OF_2 is a hybrid of:

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

Question ID : 16794325113
 Status : Answered
 Chosen Option : 3

Q.6
 3 Identify the Incorrect statement among the following.

- Ans 1. Chlorophyll protects plants from harmful UV radiation.
 2.
 Bhopal gas tragedy and Chernobyl gas tragedy occurred within a span of 2 years.
 3.
 Lichens are very important in studies on atmospheric pollution.
 4. DDT is responsible for biological magnification.

Question ID : 16794325151
 Status : Not Answered
 Chosen Option : --

Q.6
 4 In which of the following equilibrium reactions, the yield of the product affected decreases, if total pressure is increased?

- Ans 1. $H_2 + Cl_2 \rightleftharpoons 2HCl$
 2. $H_2 + I_2 \rightleftharpoons 2HI$
 3. $N_2O_4 \rightleftharpoons 2NO$
 4. $N_2 + 3H_2 \rightleftharpoons 2NH_3$

Question ID : 16794325090
Status : Answered
Chosen Option : 4

Q.6
5 When the solute is added to the solvent during dissolution, some solute particles separate out from the solution as a result of crystallisation. At the stage of equilibrium, the concentration of the solute in the solution at a given temperature and pressure:

- Ans
- 1. increases
 - 2. remains constant
 - 3. decreases
 - 4. keeps changing

Question ID : 16794325108
Status : Not Answered
Chosen Option : --

Q.6
6 What do the following compounds have in common?

PF₅, BrCl₃, XeCl₂, SeBr₄

- Ans
- 1. shape
 - 2. set of bond angles
 - 3. geometry
 - 4. number of lone pairs

Question ID : 16794325111
Status : Not Answered
Chosen Option : --

Q.6
7 This is an instructional strategy of ICON model where learners enhance transfer of learning by seeing multiple representations of the same interpretation-Identify

- Ans
- 1. Multiple Interpretation
 - 2. Contextualization
 - 3. Cognitive Apprenticeship
 - 4. Multiple Manifestations

Question ID : 16794325176
Status : Not Answered
Chosen Option : --

Q.6
8 The number of d-electrons in Co³⁺ (Z = 27) is NOT equal to that of:

- Ans
- 1. s-electrons in Mg (Z = 12)
 - 2. p-electrons in Cl⁻ (Z = 17)
 - 3. p-electrons in Ne (Z = 10)
 - 4. d-electrons in Fe (Z = 26)

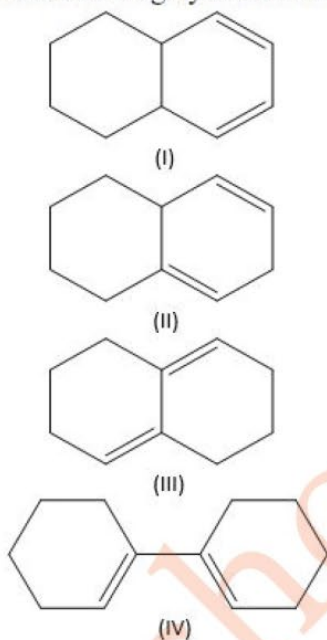
Status : Not Answered
Chosen Option : --

Q.6
9 Which among the following is a covalent hydride?

- Ans
- 1. NaH
 - 2. CaH₂
 - 3. MgH₂
 - 4. BaH₂

Question ID : 16794325122
Status : Not Answered
Chosen Option : --

Q.7
0 Which of the following hydrocarbon can react with maleic anhydride?



- Ans
- 1. (I), (III) and (IV)
 - 2. (I) and (IV)
 - 3. (I)
 - 4. (I), (II) and (IV)

Question ID : 16794325146
Status : Not Answered
Chosen Option : --

Q.7
1 How many structural isomers of a Grignard reagent are possible for preparing n-Butane by reaction with ethylamine?

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

Question ID : 1679432516
Status : Not Answered
Chosen Option : --

Q.7 Which of the following compounds acts NEITHER as an oxidising agent NOR as a reducing agent?

2

- Ans
- 1. SO_2
 - 2. HNO_2
 - 3. H_2S
 - 4. H_2O_2

Question ID : 1679432510
Status : Not Answered
Chosen Option : --

Q.7 select the set of three elements having successive atomic numbers and having the ionisation energies 1312, 2372 and 520 kJmol^{-1} , respectively is:

3

- Ans
- 1. Li, Be, B
 - 2. B, C, N
 - 3. H, He, Li
 - 4. He, Li, Be

Question ID : 1679432511
Status : Not Answered
Chosen Option : --

Q.7 The following data were obtained for a given reaction at 300 K.

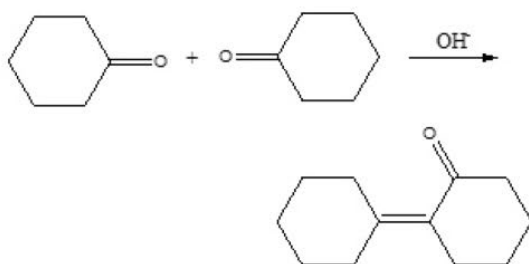
4

Reaction Energy of activation (KJmol^{-1})
uncatalysed 76
catalysed 57

the factor by which rate of catalysed reaction is increased is:

- Ans
- 1. 2000
 - 2. 2100
 - 3. 21
 - 4. 1200

The following reaction is example of:



- Ans
- 1. Aldol condensation
 - 2. Claisen condensation
 - 3. Wittig reaction
 - 4. Cannizzaro reaction

Question ID : 16794325159
Status : Not Answered
Chosen Option : --

Q.7
6 Select the haloarene with the highest melting point.

- Ans
- 1. *p*-Dichlorobenzene
 - 2. *o*-Chlorobenzene
 - 3. Chlorobenzene
 - 4. *m*-Dichlorobenzene

Question ID : 16794325155
Status : Not Answered
Chosen Option : --

Q.7
7 Which of the following reactions is NOT used to introduce -COOH group in the substrate?

- Ans
- 1. Cannizzaro reaction
 - 2. Baeyer-Villiger oxidation
 - 3. Benzilic acid rearrangement
 - 4. Iodoform reaction

Question ID : 16794325158
Status : Not Answered
Chosen Option : --

Q.7
8 The copper mineral malachite has the formula $\text{Cu}_2\text{CO}_3(\text{OH})_2$ What percentage by mass of malachite is oxygen?

- Ans
- 1. 72.4%
 - 2. 25%
 - 3. 36.2%
 - 4. 57.5%

Question ID : 16794325079

Q.7
9 Which of the following compounds turns coloured due to polarisation phenomena?

- Ans
- 1. $\text{Cr}_2\text{O}_7^{2-}$
 - 2. $[\text{Fe}(\text{CN})_6]^{3+}$
 - 3. $[\text{Ni}(\text{NH}_3)_4]^{2+}$
 - 4. AgI

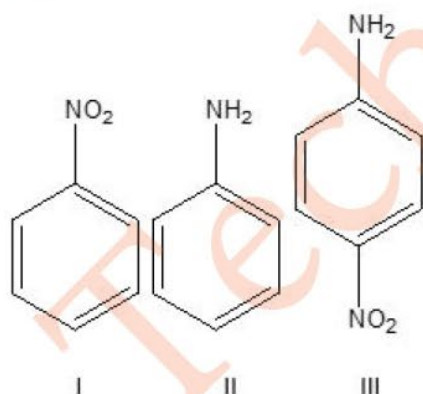
Question ID : 16794325136
Status : Not Answered
Chosen Option : --

Q.8
0 Which of the following name reaction involves migration to electron deficient nitrogen?

- Ans
- 1. Benzilic acid rearrangement
 - 2. Beckmann rearrangement
 - 3. Wolf rearrangement
 - 4. Allylic rearrangement

Question ID : 16794325164
Status : Not Answered
Chosen Option : --

Q.8
1 The correct order of dipole moments of the three compounds should be:



- Ans
- 1. III > I > II
 - 2. II > III > I
 - 3. I = II > III
 - 4. I > III > II

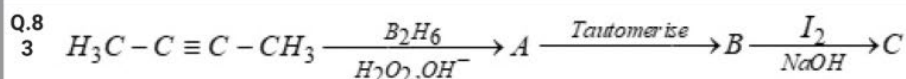
2 This is one of the Steps in lesson planning (Herbartian steps) where a teacher tries to ascertain whether his students have understood and grasped the subject or not. This checks the effectiveness of the lesson. Identify

- Ans
- 1. Recapitulation
 - 2. Generalization
 - 3. Association
 - 4. Presentation

Question ID : 16794325175

Status : Answered

Chosen Option : 1



In the given reaction, the colour of the product 'C' is:

- Ans
- 1. yellow
 - 2. prussian blue
 - 3. blood red
 - 4. pink

Question ID : 16794325156

Status : Answered

Chosen Option : 2

Q.8
4 Which of the following statements about H_2O_2 is NOT correct?

- Ans
- 1. H_2O_2 is a planar molecule with both the hydrogen in same plane.
 - 2. H_2O_2 is used to clean oil painting.
 - 3. H_2O_2 acts as an oxidising as well as a reducing agent.
 - 4. H_2O_2 is used in certain waste water treatment processes to remove organic impurities.

Question ID : 16794325124

Status : Answered

Chosen Option : 1

Q.8
5 In which of the following, the path of strong beam of light viewed from a direction perpendicular to that of the beam will NOT be visible?

- Ans
- 1. smoke
 - 2. colloidal solution
 - 3. urea solution
 - 4. starch solution

Q.8 Organic spotting of three samples was being carried out by a student. The first was a lower aliphatic acid, the second one was oxalic acid and the third one was salicylic acid. On adding aqueous ferric chloride solution, which observation will confirm the presence of salicylic acid?

Ans 1. Violet colouration.

2.

A buff coloured precipitate which dissolves in dilute H_2SO_4 giving a white precipitate.

3. Faint yellow colouration.

4.

Deep red colouration which on boiling gives brown precipitate. On adding dilute HCl, this precipitate dissolves.

Question ID : 16794325144

Status : Answered

Chosen Option : 3

Q.8 The uncertainty in the position and velocity of a particle are 10^{-10} m and 5.27×10^{-24} m/s⁻¹, respectively. Calculate the mass of the particle.

Ans 1. 100 g

2. 200 g

3. 10 g

4. 100 kg

Question ID : 16794325087

Status : Answered

Chosen Option : 1

Q.8 In which of the following heavy water is NOT used?

Ans 1. NMR spectroscopy

2. as a moderator in nuclear reactor

3. in preparation of atom bomb

4. Production of deuterated compounds

Question ID : 16794325121

Status : Answered

Chosen Option : 1

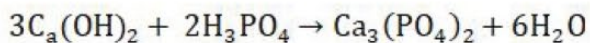
Q.8 Which of the following is an ester of glycerol?

Ans 1. Glycolipids

2. Lipids

3. Sterol

4. Cholesterol



The equivalent weight of H_3PO_4 in the above reaction is:

- Ans
- 1. 65.32
 - 2. 32.66
 - 3. 16.33
 - 4. 49.00

Question ID : 16794325081
Status : Answered
Chosen Option : 4

Q.9 The rubber used for manufacturing tyres is vulcanised with _____ % of sulphur.

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

Question ID : 16794325171
Status : Answered
Chosen Option : 2

Q.9 Which of the following chemicals, in addition to water, are used as raw materials for the manufacture of Na_2CO_3 by Solvay process?

- Ans
- 1. NaSO_4 , CO and NH_3
 - 2. NaHCO_3 , CO and NH_3
 - 3. NaCl , NH_4Cl and CO_2
 - 4. NaCl , CO_2 and NH_3

Question ID : 16794325127
Status : Answered
Chosen Option : 3

Q.9 Which of the following metallic element is the most abundant in the earth's crust?

- Ans
- 1. Zinc
 - 2. Iron
 - 3. Aluminium
 - 4. Silicone

Question ID : 16794325128
Status : Answered
Chosen Option : 2

Q.9 Unlike sodium, lithium CANNOT be stored in kerosene oil because:

- Ans
- 1. it is soluble in kerosene
 - 2. it reacts with kerosene

3. it floats on the surface of kerosene
 4. it is an alkali metal

Question ID : 16794325126
Status : Answered
Chosen Option : 3

Q.9
5 Which of the following statements about $\text{Fe}(\text{CO})_5$ is correct?

- Ans 1. It is diamagnetic and low spin complex.
 2. It is paramagnetic and low spin complex.
 3. It is paramagnetic and high spin complex.
 4. It is diamagnetic and high spin complex.

Question ID : 16794325142
Status : Answered
Chosen Option : 1

Q.9
6 The salts of Cu in +1 oxidation state are unstable because:

- Ans 1. Cu^+ is easily reduced to Cu^{2+}
 2. Cu^+ has a $3d^{10}$ configuration
 3. Cu^+ disproportionates easily to Cu^{2+} and Cu^{3+}
 4. Cu^+ disproportionates easily to $\text{Cu}(0)$ and Cu^{2+}

Question ID : 16794325140
Status : Answered
Chosen Option : 4

Q.9
7 NCF-2005 refers to six validities of a good science curriculum. There is a statement given below. Which of these validities does this statement refer to?

Statement: The Periodic Table in Chemistry was earlier based on atomic weight, later based on atomic number, and finally explained by quantum theory.

- Ans 1. Cognitive validity
 2. Historical validity
 3. Process validity
 4. Content validity

Question ID : 16794325173
Status : Answered
Chosen Option : 2

Q.9
8 Which of the following can be used in desiccators to remove traces of moisture?

- Ans 1. Animal charcoal
 2. Activated charcoal

3. Magnesium silicate

4. Silica gel

Question ID : 16794325099

Status : Answered

Chosen Option : 4

Q.9 The wavelength of H_α line of Balmer series is 4340 Å. Then the wavelength of H_β line of Balmer series is:

Ans 1. 6563 Å

2. 4340 Å

3. 4861 Å

4. 4102 Å

Question ID : 16794325085

Status : Answered

Chosen Option : 2

Q.1 Sprinkling of salt helps in clearing the snow covered roads in hills. The phenomenon involved in the process refers to:

Ans 1. melting of ice due to increase in temperature by putting salt

2. lowering of vapour pressure of snow

3. depression in freezing point of snow

4. increase in freezing point of snow

Question ID : 16794325110

Status : Answered

Chosen Option : 3

