

CUET UG Exam May - June 2023

Application No	
Candidate Name	
Roll No	
Test Date	23/05/2023
Test Time	3:30 PM - 6:30 PM

Section : Chemistry

Q.1

Which aldehyde is used to preserve biological specimens?

1. Acetaldehyde
2. Benzaldehyde
3. Butanal
4. Formaldehyde

Options 1. 1

2. 2

3. 3

4. 4

Question Type : MCQ

Question ID : 6323866435

Option 1 ID : 63238625737

Option 2 ID : 63238625738

Option 3 ID : 63238625739

Option 4 ID : 63238625740

Status : Answered

Chosen Option : 4

Q.2

Sulphur molecule at room temperature is

1. Diatomic
2. Tetratomic
3. Triatomic
4. Octatomic

Options 1. 1

2. 2

3. 3

4. 4

Question Type : **MCQ**

Question ID : **6323866442**

Option 1 ID : **63238625765**

Option 2 ID : **63238625766**

Option 3 ID : **63238625767**

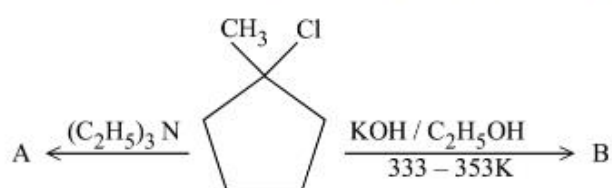
Option 4 ID : **63238625768**

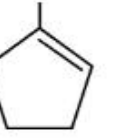
Status : **Answered**

Chosen Option : **3**

Q.3

Identify A and B respectively in the following equation.



1.  and 
2.  and 
3.  and 
4.  and 

Options 1. 1

2. 2

3. 3

4. 4

Question Type : MCQ

Question ID : 6323866452

Option 1 ID : 63238625805

Option 2 ID : 63238625806

Option 3 ID : 63238625807

Option 4 ID : 63238625808

Status : Answered

Chosen Option : 4

Q.4

$$E^\circ_{K^+/K} = -2.93V, E^\circ_{Ag^+/Ag} = 0.8V, E^\circ_{Cu^{2+}/Cu} = 0.34V,$$

$$E^\circ_{Ni^{2+}/Ni} = -0.25V, E^\circ_{Li^+/Li} = -3.05V$$

Arrange these following metals in increasing order of their reducing power.

- A. K
- B. Ag
- C. Cu
- D. Ni
- E. Li

Choose the correct answer from the options given below:

- 1. $B < C < A < D < E$
- 2. $B < C < E < A < D$
- 3. $B < C < D < A < E$
- 4. $B < C < A < E < D$

Options 1. 1

2. 2

3. 3

4. 4

Question Type : MCQ

Question ID : 6323866434

Option 1 ID : 63238625733

Option 2 ID : 63238625734

Option 3 ID : 63238625735

Option 4 ID : 63238625736

Status : Answered

Chosen Option : 2

Q.5

Which one of the following ligands forms a chelate?

1. Cyanide
2. Water
3. Oxalate
4. Chloride

Options

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

Question Type : MCQ

Question ID : 6323866443

Option 1 ID : 63238625769

Option 2 ID : 63238625770

Option 3 ID : 63238625771

Option 4 ID : 63238625772

Status : Answered

Chosen Option : 1

Q.6 Pentan-2-one and pentan-3-one can be distinguished by

1. Iodoform test
2. Neutral FeCl_3 test
3. Blue litmus test
4. Lucas reagent test

Options

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

Question Type : MCQ

Question ID : 63238611887

Option 1 ID : 63238647545

Option 2 ID : 63238647546

Option 3 ID : 63238647547

Option 4 ID : 63238647548

Status : Answered

Chosen Option : 2

Q.7

Arrange the following hydrides in decreasing order of their thermal stability.

- A. H_2S
- B. H_2Se
- C. H_2O
- D. H_2Te
- E. H_2Po

Choose the correct answer from the options given below:

- 1. $\text{E} > \text{C} > \text{B} > \text{D} > \text{A}$
- 2. $\text{C} > \text{A} > \text{B} > \text{D} > \text{E}$
- 3. $\text{E} > \text{D} > \text{B} > \text{A} > \text{C}$
- 4. $\text{C} > \text{B} > \text{A} > \text{E} > \text{D}$

Options 1. 1

2. 2

3. 3

4. 4

Question Type : MCQ

Question ID : 6323866438

Option 1 ID : 63238625749

Option 2 ID : 63238625750

Option 3 ID : 63238625751

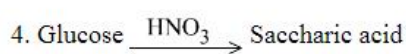
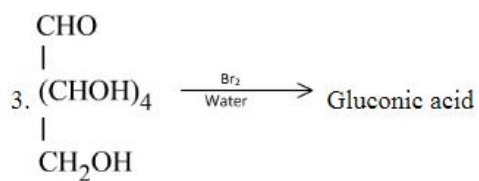
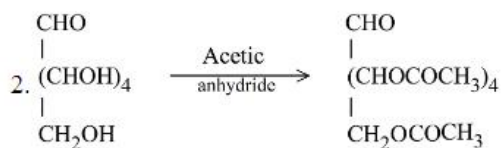
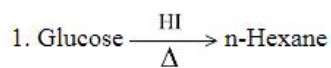
Option 4 ID : 63238625752

Status : Answered

Chosen Option : 1

Q.8

Which of the following reactions show that glucose contains five 'OH' groups?



Options 1. 1

2. 2

3. 3

4. 4

Question Type : MCQ

Question ID : 6323866463

Option 1 ID : 63238625849

Option 2 ID : 63238625850

Option 3 ID : 63238625851

Option 4 ID : 63238625852

Status : Answered

Chosen Option : 4

Q.9 Match List I with List II

LIST I		LIST II	
A.	Stephen reduction	I.	$\text{PhCOCl} \xrightarrow[\text{Pd/BaSO}_4]{\text{H}_2} \text{PhCHO} + \text{HCl}$
B.	Clemensen reduction	II.	$\text{>C=O} + \text{HCl} \xrightarrow[\text{Hg}]{\text{Zn}} \text{>CH}_2 + \text{H}_2\text{O}$
C.	Wolf Kishner reduction	III.	$\text{RCN} \xrightarrow[\text{SnCl}_2]{\text{HCl}} \text{RCH=NH} \xrightarrow{\text{H}_3\text{O}^+} \text{RCHO}$
D.	Rosenmund reduction	IV.	$\text{>C=O} \xrightarrow{\text{NH}_2\text{NH}_2} \text{>C=N.NH}_2 \xrightarrow[\text{glycol}]{\text{KOH}} \text{>CH}_2 + \text{N}_2$

Choose the correct answer from the options given below:

1. A-III, B-II, C-IV, D-I
2. A-III, B-II, C-I, D-IV
3. A-II, B-III, C-I, D-IV
4. A-II, B-III, C-IV, D-I

Options 1. 1

2. 2

3. 3

4. 4

Question Type : **MCQ**

Question ID : **63238611886**

Option 1 ID : **63238647541**

Option 2 ID : **63238647542**

Option 3 ID : **63238647543**

Option 4 ID : **63238647544**

Status : **Answered**

Chosen Option : **2**

Q.10

Increasing order of reducing power of following hydrides would be

- A. SbH_3
- B. AsH_3
- C. NH_3
- D. PH_3
- E. BiH_3

Choose the correct answer from the options given below:

- 1. $\text{E} < \text{A} < \text{B} < \text{D} < \text{C}$
- 2. $\text{C} < \text{D} < \text{B} < \text{A} < \text{E}$
- 3. $\text{C} < \text{D} < \text{A} < \text{B} < \text{E}$
- 4. $\text{A} < \text{E} < \text{D} < \text{B} < \text{C}$

Options 1. 1

2. 2

3. 3

4. 4

Question Type : MCQ

Question ID : 6323866436

Option 1 ID : 63238625741

Option 2 ID : 63238625742

Option 3 ID : 63238625743

Option 4 ID : 63238625744

Status : Answered

Chosen Option : 1

Q.11

Aspartame is used in cold foods and soft drinks even though it is roughly 100 times as sweet as cane sugar and can pose a health hazard because :

- 1. It is stable at cooking temperature.
- 2. It is a monomer.
- 3. It is bitter in taste.
- 4. It is unstable at cooking temperature.

Options 1. 1

2. 2

3. 3

4. 4

Question Type : MCQ

Question ID : 6323866447

Option 1 ID : 63238625785

Option 2 ID : 63238625786

Option 3 ID : 63238625787

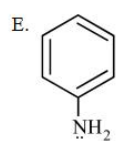
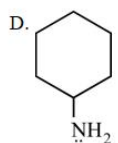
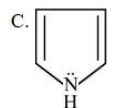
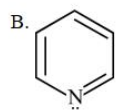
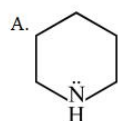
Option 4 ID : 63238625788

Status : Answered

Chosen Option : 3

Q.12

Nitrogen containing compounds are basic in nature & their basic strength depends on ease of availability of lone pair of electrons on nitrogen atoms. For the following nitrogen containing compounds what will be correct order of basicity?



Choose the correct answer from the options given below:

1. $A > B > D > C > E$
2. $B > A > D > E > C$
3. $B > D > A > C > E$
4. $A > D > B > E > C$

Options 1. 1

2. 2

3. 3

4. 4

Question Type : MCQ

Question ID : 6323866456

Option 1 ID : 63238625821

Option 2 ID : 63238625822

Option 3 ID : 63238625823

Option 4 ID : 63238625824

Status : Answered

Chosen Option : 2

Q.13

Helium and element 'X' have outer electron configuration of ns^2 . Identify the element 'X'.

1. Na
2. B
3. Be
4. Ne

Options 1. 1

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 6323866461

Option 1 ID : 63238625841

Option 2 ID : 63238625842

Option 3 ID : 63238625843

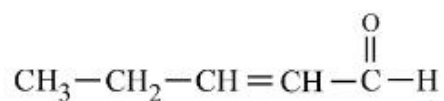
Option 4 ID : 63238625844

Status : Answered

Chosen Option : 1

Q.14

Correct IUPAC name of



is:

1. pent-2-enal
2. pent-2-enol
3. pent-3-enal
4. pent-3-enol

Options 1. 1

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 6323866441

Option 1 ID : 63238625761

Option 2 ID : 63238625762

Option 3 ID : 63238625763

Option 4 ID : 63238625764

Status : Answered

Chosen Option : 1

Q.15

What amount of bromine will be required to convert 6 g of phenol into 2,4,6-tribromophenol?

1. 30.63 g
2. 40.64 g
3. 20.38 g
4. 15.63 g

Options 1. 1

2. 2
3. 3
4. 4

Question Type : **MCQ**

Question ID : **6323866468**

Option 1 ID : **63238625869**

Option 2 ID : **63238625870**

Option 3 ID : **63238625871**

Option 4 ID : **63238625872**

Status : **Answered**

Chosen Option : **2**

Q.16

The osmotic pressure of a solution prepared by dissolving 50 mg of H_2SO_4 in 2 liters of water at 25°C will be

1. 5.2700 atm
2. 0.0187 atm
3. 187.3 atm
4. 0.527 atm

Options 1. 1

2. 2
3. 3
4. 4

Question Type : **MCQ**

Question ID : **6323866432**

Option 1 ID : **63238625725**

Option 2 ID : **63238625726**

Option 3 ID : **63238625727**

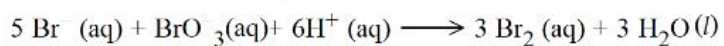
Option 4 ID : **63238625728**

Status : **Answered**

Chosen Option : **4**

Q.17

Which of the following expression is correct for the rate of reaction given below?



1. $\frac{\Delta[\text{Br}^-]}{\Delta t} = 5 \frac{\Delta[\text{H}^+]}{\Delta t}$

2. $\frac{\Delta[\text{Br}^-]}{\Delta t} = \frac{6}{5} \frac{\Delta[\text{H}^+]}{\Delta t}$

3. $\frac{\Delta[\text{Br}^-]}{\Delta t} = \frac{5}{6} \frac{\Delta[\text{H}^+]}{\Delta t}$

4. $\frac{\Delta[\text{Br}^-]}{\Delta t} = 6 \frac{\Delta[\text{H}^+]}{\Delta t}$

Options

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

Question Type : MCQ

Question ID : 6323866460

Option 1 ID : 63238625837

Option 2 ID : 63238625838

Option 3 ID : 63238625839

Option 4 ID : 63238625840

Status : Answered

Chosen Option : 1

Q.18

The complex $[\text{Co}(\text{NH}_3)_4(\text{NO}_2)_2]\text{Cl}$ exhibits.

- A. Coordination isomerism
- B. Linkage isomerism
- C. Solvate isomerism
- D. Ionisation isomerism
- E. Geometrical isomerism

Choose the correct answer from the options given below:

- 1. B, D and E only
- 2. B, A and D only
- 3. C, A and D only
- 4. D, E and C only

Options 1. 1

2. 2

3. 3

4. 4

Question Type : MCQ

Question ID : 6323866446

Option 1 ID : 63238625781

Option 2 ID : 63238625782

Option 3 ID : 63238625783

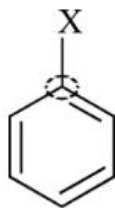
Option 4 ID : 63238625784

Status : Answered

Chosen Option : 4

Q.19

What will be the hybridisation of highlighted carbon in the given haloarene



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

Options 1. 1

2. 2

3. 3

4. 4

Question Type : MCQ

Question ID : 6323866454

Option 1 ID : 63238625813

Option 2 ID : 63238625814

Option 3 ID : 63238625815

Option 4 ID : 63238625816

Status : Answered

Chosen Option : 1

Q.20

Potassium (K) and Rubidium (Rb) forms

1. Suboxides
2. Peroxides
3. Superoxides
4. Dioxides

Options 1. 1

2. 2

3. 3

4. 4

Question Type : MCQ

Question ID : 6323866464

Option 1 ID : 63238625853

Option 2 ID : 63238625854

Option 3 ID : 63238625855

Option 4 ID : 63238625856

Status : Answered

Chosen Option : 2

Q.21

Which of the following hormones is produced under the condition of stress which stimulates glycogenolysis in the liver of human beings ?

1. Thyroxin
2. Estradiol
3. Adrenaline
4. Insulin

Options 1. 1

2. 2
3. 3
4. 4

Question Type : **MCQ**

Question ID : **6323866457**

Option 1 ID : **63238625825**

Option 2 ID : **63238625826**

Option 3 ID : **63238625827**

Option 4 ID : **63238625828**

Status : **Answered**

Chosen Option : **3**

Q.22

What does a negative E° (standard reduction potential) value of a redox couple indicate?

1. Redox couple is a stronger reducing agent than couple H^+/H_2 couple.
2. Redox couple is a weaker reducing agent than the H^+/H_2 couple.
3. Redox couple is a stronger oxidising agent than the H^+/H_2 couple.
4. Redox couple carry equivalent oxidising power as H^+/H_2 couple.

Options 1. 1

2. 2
3. 3
4. 4

Question Type : **MCQ**

Question ID : **6323866458**

Option 1 ID : **63238625829**

Option 2 ID : **63238625830**

Option 3 ID : **63238625831**

Option 4 ID : **63238625832**

Status : **Answered**

Chosen Option : **4**

Q.23

Which of the following statement is correct about the half life period?

- A. It is proportional to initial concentration of zero order reaction.
- B. Half life period can be used to determine the order of the reaction.
- C. Half life period for Ist order reaction is independent of concentration.
- D. Catalyst does not affect half life time period.

- 1. A and B only
- 2. A, B and D only
- 3. A, B and C only
- 4. B, C and D only

Options 1. 1

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

Question Type : MCQ

Question ID : 6323866440

Option 1 ID : 63238625757

Option 2 ID : 63238625758

Option 3 ID : 63238625759

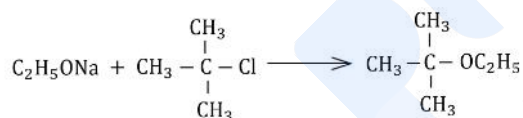
Option 4 ID : 63238625760

Status : Answered

Chosen Option : 2

Q.24

The following is not an appropriate reaction for preparation of t-butyl ethyl ether because :



- 1. Sodium ethoxide is a weak base
- 2. Alkyl halide is tertiary in nature
- 3. Sodium ethoxide is a strong base
- 4. The ether formed is very bulky

Options 1. 1

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

Question Type : MCQ

Question ID : 6323866466

Option 1 ID : 63238625861

Option 2 ID : 63238625862

Option 3 ID : 63238625863

Option 4 ID : 63238625864

Status : Answered

Chosen Option : 3

Q.25

For the equimolal solutions, increasing order of osmotic pressure is

- A. 1 m $\text{C}_6\text{H}_5\text{COOH}$
- B. 1 m BaCl_2
- C. 1 m KCl
- D. 1 m glucose
- E. 1 m H_3PO_4

Choose the correct answer from the options given below:

- 1. $A < D < C < B < E$
- 2. $E < B < C < D < A$
- 3. $A < B < C < D < E$
- 4. $E < C < B < D < A$

Options 1. 1

2. 2

3. 3

4. 4

Question Type : MCQ

Question ID : 6323866467

Option 1 ID : 63238625865

Option 2 ID : 63238625866

Option 3 ID : 63238625867

Option 4 ID : 63238625868

Status : Answered

Chosen Option : 1

Q.26

In Cu – Ag electrochemical cell Cu acts as

1. Anode
2. Cathode
3. Salt bridge
4. Electrolyte

Options 1. 1

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 6323866469

Option 1 ID : 63238625873

Option 2 ID : 63238625874

Option 3 ID : 63238625875

Option 4 ID : 63238625876

Status : Answered

Chosen Option : 4

Q.27

If we plot graph for first order reaction involving reactant R, then it will be a straight line if plotted for :

1. $\frac{[R]}{[R]_0}$ against time, t
2. $[R]_0$ against time, t
3. $\log \frac{[R]}{[R]_0}$ against time, t
4. $[R]$ against time, t

Options 1. 1

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 6323866465

Option 1 ID : 63238625857

Option 2 ID : 63238625858

Option 3 ID : 63238625859

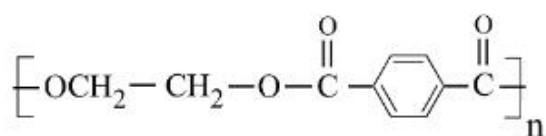
Option 4 ID : 63238625860

Status : Answered

Chosen Option : 1

Q.28

What is the name of given polymer?



1. Teflon
2. Nylon 6
3. Terylene
4. Polyacrylonitrile

Options 1. 1

2. 2

3. 3

4. 4

Question Type : MCQ

Question ID : 6323866444

Option 1 ID : 63238625773

Option 2 ID : 63238625774

Option 3 ID : 63238625775

Option 4 ID : 63238625776

Status : Answered

Chosen Option : 3

Q.29

Identify the reagent which can be used to convert benzamide into aniline in a single step:

1. $\text{NaNO}_2 + \text{dil. HCl}$ at 0°C
2. $\text{I}_2 + \text{aq. NaOH}$
3. $\text{Br}_2 + \text{aq. NaOH}$
4. $\text{Br}_2 + \text{CH}_3\text{COOH}$

Options 1. 1

2. 2

3. 3

4. 4

Question Type : MCQ

Question ID : 6323866439

Option 1 ID : 63238625753

Option 2 ID : 63238625754

Option 3 ID : 63238625755

Option 4 ID : 63238625756

Status : Answered

Chosen Option : 1

Q.30

Arrange the following carboxylic acids in increasing order of their acid strength.

- A. CH_3COOH
- B. $\text{CH}_3\text{CH}_2\text{COOH}$
- C. $\text{C}_6\text{H}_5\text{CH}_2\text{COOH}$
- D. $\text{C}_6\text{H}_5\text{COOH}$

Choose the correct answer from the options given below:

- 1. $\text{A} > \text{B} > \text{D} > \text{C}$
- 2. $\text{A} > \text{B} > \text{C} > \text{D}$
- 3. $\text{D} > \text{C} > \text{A} > \text{B}$
- 4. $\text{C} > \text{D} > \text{B} > \text{A}$

Options 1. 1

2. 2

3. 3

4. 4

Question Type : MCQ

Question ID : 6323866462

Option 1 ID : 63238625845

Option 2 ID : 63238625846

Option 3 ID : 63238625847

Option 4 ID : 63238625848

Status : Answered

Chosen Option : 3

Q.31

Samples of benzaldehyde and acetaldehyde can be distinguished by using

- 1. 2,4 Dinitrophenylhydrazine
- 2. Tollen's reagent
- 3. Mixture of Fehling solution A + B
- 4. Zn-Hg/HCl

Options 1. 1

2. 2

3. 3

4. 4

Question Type : MCQ

Question ID : 6323866445

Option 1 ID : 63238625777

Option 2 ID : 63238625778

Option 3 ID : 63238625779

Option 4 ID : 63238625780

Status : Answered

Chosen Option : 2

Q.32

The purest form of commercial iron is

1. Cast Iron
2. Wrought Iron
3. Pig Iron
4. Steel

Options 1. 1

2. 2

3. 3

4. 4

Question Type : **MCQ**

Question ID : **6323866470**

Option 1 ID : **63238625877**

Option 2 ID : **63238625878**

Option 3 ID : **63238625879**

Option 4 ID : **63238625880**

Status : **Answered**

Chosen Option : **1**

Q.33

Following is a property of p-type semiconductor

1. Each atom forms four covalent bonds.
2. Fifth electron is extra and becomes delocalised.
3. The place where the 4th valence electron is missing is called hole.
4. Increase in conductivity is due to negatively charged electron.

Options 1. 1

2. 2

3. 3

4. 4

Question Type : **MCQ**

Question ID : **6323866453**

Option 1 ID : **63238625809**

Option 2 ID : **63238625810**

Option 3 ID : **63238625811**

Option 4 ID : **63238625812**

Status : **Answered**

Chosen Option : **4**

Q.34

Amalgam of mercury with sodium belongs to which solute-solvent combination

1. Solid-Gas
2. Solid-Solid
3. Gas-Solid
4. Liquid-Solid

Options 1. 1

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 6323866455

Option 1 ID : 63238625817

Option 2 ID : 63238625818

Option 3 ID : 63238625819

Option 4 ID : 63238625820

Status : Answered

Chosen Option : 2

Q.35

Complete hydrolysis of DNA does not yield

1. Phosphoric acid
2. Pentose sugar
3. Nitrogen containing compound
4. Secondary alcohol

Options 1. 1

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 6323866450

Option 1 ID : 63238625797

Option 2 ID : 63238625798

Option 3 ID : 63238625799

Option 4 ID : 63238625800

Status : Answered

Chosen Option : 3

Q.36

Given below are the steps involved in the process of zone refining for removing impurities which are more soluble in the melt than solid state of the metal.

- A. Impurities get concentrated at one end.
- B. As the heater moves forward, the pure metal crystallises out of the melt left behind and the impurities pass to the next zone.
- C. A mobile heater surrounding the rod of impure metal is fixed at its one end.
- D. The end is cut off.
- E. The molten zone moves along with the heater which is moved forward.

Choose the correct answer from the options given below:

- 1. E, B, C, D, A
- 2. E, B, C, A, D
- 3. C, E, B, A, D
- 4. C, B, E, A, D

Options 1. 1

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

Question Type : **MCQ**

Question ID : **6323866449**

Option 1 ID : **63238625793**

Option 2 ID : **63238625794**

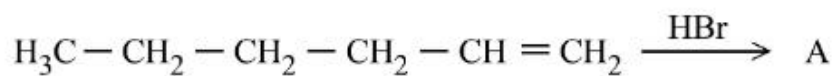
Option 3 ID : **63238625795**

Option 4 ID : **63238625796**

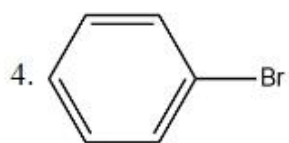
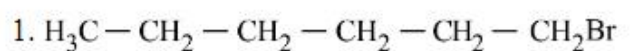
Status : **Answered**

Chosen Option : **1**

Q.37



A will be



Options

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

Question Type : MCQ

Question ID : 6323866437

Option 1 ID : 63238625745

Option 2 ID : 63238625746

Option 3 ID : 63238625747

Option 4 ID : 63238625748

Status : Answered

Chosen Option : 4

Q.38

An element 'Y' has a body centred cubic (bcc) structure with a cell edge of 144 pm. The density of the element is 3.6 g/cm^3 . How many atoms are present in 720 g of the element?

1. 14.24×10^{23} atoms

2. 10.42×10^{25} atoms

3. 24.16×10^{23} atoms

4. 13.42×10^{25} atoms

Options

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

Question Type : MCQ

Question ID : 6323866451

Option 1 ID : 63238625801

Option 2 ID : 63238625802

Option 3 ID : 63238625803

Option 4 ID : 63238625804

Status : Answered

Chosen Option : 2

Q.39

Which of the following have lowest value of pK_b in their aqueous solution ?

1. $(CH_3)_2NH$
2. $(CH_3)_3N$
3. CH_3NH_2
4. NH_3

Options

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

Question Type : MCQ

Question ID : 6323866433

Option 1 ID : 63238625729

Option 2 ID : 63238625730

Option 3 ID : 63238625731

Option 4 ID : 63238625732

Status : Answered

Chosen Option : 3

Q.40

The correct structure representing N,N-dimethylethanamine is

1. $\begin{array}{c} CH_3-N-CH_3 \\ | \\ CH_3 \end{array}$
2. $CH_3CH_2-NH-CH_2CH_3$
3. $\begin{array}{c} CH_3-N-CH_3 \\ | \\ CH_2CH_3 \end{array}$
4. $CH_3-CH_2-CH_2-CH_2-NH_2$

Options

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

Question Type : MCQ

Question ID : 6323866459

Option 1 ID : 63238625833

Option 2 ID : 63238625834

Option 3 ID : 63238625835

Option 4 ID : 63238625836

Status : Answered

Chosen Option : 1

Q.41

Answer the question on the basis of passage given below :

Adsorption is the phenomenon of attracting and retaining the molecules of a substance on the surface of a solid resulting into a higher concentration on the surface than in the bulk. The substance adsorbed is known as adsorbate and the substance on which adsorption takes place is called adsorbent. In physisorption adsorbate is held to the adsorbent by weak van der Waals forces and in chemisorption by strong chemical bond.

Out of Milk, butter, ice cream, fruit juice and lemonade. Identify the one which is not a colloid.

1. Milk
2. Lemonade
3. Fruit Juice
4. Butter

Options 1. 1

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 6323866471

Option 1 ID : 63238625881

Option 2 ID : 63238625882

Option 3 ID : 63238625883

Option 4 ID : 63238625884

Status : Not Answered

Chosen Option : --

Q.42

Answer the question on the basis of passage given below :

Adsorption is the phenomenon of attracting and retaining the molecules of a substance on the surface of a solid resulting into a higher concentration on the surface than in the bulk. The substance adsorbed is known as adsorbate and the substance on which adsorption takes place is called adsorbent. In physisorption adsorbate is held to the adsorbent by weak van der Waals forces and in chemisorption by strong chemical bond.

Argyrol is a medicine used for

1. Curing Kalaazar
2. Stomach disorders
3. Eye Lotion
4. Intramuscular injection

Options 1. 1

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 6323866472

Option 1 ID : 63238625885

Option 2 ID : 63238625886

Option 3 ID : 63238625887

Option 4 ID : 63238625888

Status : Not Answered

Chosen Option : --

Q.43

Answer the question on the basis of passage given below :

Adsorption is the phenomenon of attracting and retaining the molecules of a substance on the surface of a solid resulting into a higher concentration on the surface than in the bulk. The substance adsorbed is known as adsorbate and the substance on which adsorption takes place is called adsorbent. In physisorption adsorbate is held to the adsorbent by weak van der Waals forces and in chemisorption by strong chemical bond.

The process of absorption is accompanied by

1. Increase in entropy
2. Decrease in entropy
3. Increase in enthalpy
4. Increase in Gibbs free energy

Options 1. 1

2. 2

3. 3

4. 4

Question Type : **MCQ**

Question ID : **6323866473**

Option 1 ID : **63238625889**

Option 2 ID : **63238625890**

Option 3 ID : **63238625891**

Option 4 ID : **63238625892**

Status : **Not Answered**

Chosen Option : --

Q.44

Answer the question on the basis of passage given below :

Adsorption is the phenomenon of attracting and retaining the molecules of a substance on the surface of a solid resulting into a higher concentration on the surface than in the bulk. The substance adsorbed is known as adsorbate and the substance on which adsorption takes place is called adsorbent. In physisorption adsorbate is held to the adsorbent by weak van der Waals forces and in chemisorption by strong chemical bond.

In coagulation of a positive sol, the flocculating power will be in the order

- A. PO_4^{3-}
- B. Cl^-
- C. $\text{Fe}(\text{CN}_6)]^{4-}$
- D. SO_4^{2-}

Choose the correct answer from the options given below:

- 1. $\text{C} > \text{A} > \text{D} > \text{B}$
- 2. $\text{C} > \text{A} > \text{B} > \text{D}$
- 3. $\text{C} > \text{D} > \text{B} > \text{A}$
- 4. $\text{B} > \text{D} > \text{A} > \text{C}$

Options 1. 1

2. 2

3. 3

4. 4

Question Type : MCQ

Question ID : 6323866474

Option 1 ID : 63238625893

Option 2 ID : 63238625894

Option 3 ID : 63238625895

Option 4 ID : 63238625896

Status : Not Answered

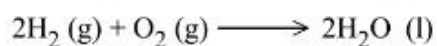
Chosen Option : --

Q.45

Answer the question on the basis of passage given below :

Adsorption is the phenomenon of attracting and retaining the molecules of a substance on the surface of a solid resulting into a higher concentration on the surface than in the bulk. The substance adsorbed is known as adsorbate and the substance on which adsorption takes place is called adsorbent. In physisorption adsorbate is held to the adsorbent by weak van der Waals forces and in chemisorption by strong chemical bond.

In the given reaction, catalyst used is



1. Cu

2. Ni

3. Pt

4. Pd

Options 1. 1

2. 2

3. 3

4. 4

Question Type : MCQ

Question ID : 6323866475

Option 1 ID : 63238625897

Option 2 ID : 63238625898

Option 3 ID : 63238625899

Option 4 ID : 63238625900

Status : Not Answered

Chosen Option : --

Q.46

Answer the question on the basis of passage given below :

One of the notable features of the transition element is the great variety of oxidation states it may show in its compounds. The elements which give the greatest number of oxidation states occur in or near the middle of the series. Manganese, for example exhibits all the oxidation states from +2 to +7. The lesser number of oxidation states at the extreme ends is either due to losing or sharing of few electrons (Sc, Ti) or too many d electrons of higher valence. Early in the first series scandium (II) is virtually unknown and titanium (IV) which is more stable than Ti (III) or Ti (II). On the other end, the only oxidation state of zinc is +2.

Oxidation state of scandium is

1. +1

2. +2

3. +3

4. +4

Options

1. 1

2. 2

3. 3

4. 4

Question Type : **MCQ**

Question ID : **6323866476**

Option 1 ID : **63238625901**

Option 2 ID : **63238625902**

Option 3 ID : **63238625903**

Option 4 ID : **63238625904**

Status : **Not Answered**

Chosen Option : --

Q.47

Answer the question on the basis of passage given below :

One of the notable features of the transition element is the great variety of oxidation states it may show in its compounds. The elements which give the greatest number of oxidation states occur in or near the middle of the series. Manganese, for example exhibits all the oxidation states from +2 to +7. The lesser number of oxidation states at the extreme ends is either due to losing or sharing of few electrons (Sc, Ti) or too many d electrons of higher valence. Early in the first series scandium (II) is virtually unknown and titanium (IV) which is more stable than Ti (III) or Ti (II). On the other end, the only oxidation state of zinc is +2.

Fe shows extra stability as Fe^{3+} due to

1. d^{10}

2. d^5

3. s^0

4. s^2

Options 1. 1

2. 2

3. 3

4. 4

Question Type : **MCQ**

Question ID : **6323866477**

Option 1 ID : **63238625905**

Option 2 ID : **63238625906**

Option 3 ID : **63238625907**

Option 4 ID : **63238625908**

Status : **Not Answered**

Chosen Option : --

Q.48

Answer the question on the basis of passage given below :

One of the notable features of the transition element is the great variety of oxidation states it may show in its compounds. The elements which give the greatest number of oxidation states occur in or near the middle of the series. Manganese, for example exhibits all the oxidation states from +2 to +7. The lesser number of oxidation states at the extreme ends is either due to losing or sharing of few electrons (Sc, Ti) or too many d electrons of higher valence. Early in the first series scandium (II) is virtually unknown and titanium (IV) which is more stable than Ti (III) or Ti (II). On the other end, the only oxidation state of zinc is +2.

For balancing the given reaction, value of x will be.



1. 2

2. 4

3. 8

4. 7

Options

1. 1

2. 2

3. 3

4. 4

Question Type : MCQ

Question ID : 6323866478

Option 1 ID : 63238625909

Option 2 ID : 63238625910

Option 3 ID : 63238625911

Option 4 ID : 63238625912

Status : Not Answered

Chosen Option : --

Q.49

Answer the question on the basis of passage given below :

One of the notable features of the transition element is the great variety of oxidation states it may show in its compounds. The elements which give the greatest number of oxidation states occur in or near the middle of the series. Manganese, for example exhibits all the oxidation states from +2 to +7. The lesser number of oxidation states at the extreme ends is either due to losing or sharing of few electrons (Sc, Ti) or too many d electrons of higher valence. Early in the first series scandium (II) is virtually unknown and titanium (IV) which is more stable than Ti (III) or Ti (II). On the other end, the only oxidation state of zinc is +2.

Cr^{2+} is reducing but Mn^{3+} is oxidising in nature although both have d^4 configuration. It is due to the reason that Cr configuration changes from

1. d^4 to d^3
2. d^4 to d^5
3. d^2 to d^3
4. d^9 to d^{10}

Options 1. 1

2. 2

3. 3

4. 4

Question Type : **MCQ**

Question ID : **6323866479**

Option 1 ID : **63238625913**

Option 2 ID : **63238625914**

Option 3 ID : **63238625915**

Option 4 ID : **63238625916**

Status : **Not Answered**

Chosen Option : --

Q.50

Answer the question on the basis of passage given below :

One of the notable features of the transition element is the great variety of oxidation states it may show in its compounds. The elements which give the greatest number of oxidation states occur in or near the middle of the series. Manganese, for example exhibits all the oxidation states from +2 to +7. The lesser number of oxidation states at the extreme ends is either due to losing or sharing of few electrons (Sc, Ti) or too many d electrons of higher valence. Early in the first series scandium (II) is virtually unknown and titanium (IV) which is more stable than Ti (III) or Ti (II). On the other end, the only oxidation state of zinc is +2.

Ambidentate ligand among the following is

- A. NCS
- B. $\text{C}_2\text{O}_4^{-2}$
- C. SCN
- D. $\text{H}_2\text{NCH}_2\text{CH}_2\text{NH}_2$
- E. NO_2

Choose the correct answer from the options given below:

- 1. A, C and E only
- 2. A, B and C only
- 3. B, C and D only
- 4. A, C and D only

Options 1. 1

2. 2

3. 3

4. 4

Question Type : MCQ

Question ID : 6323866480

Option 1 ID : 63238625917

Option 2 ID : 63238625918

Option 3 ID : 63238625919

Option 4 ID : 63238625920

Status : Not Answered

Chosen Option : --