

NTA CUET UG 06th and 07th June 2026

Application No	
Candidate Name	
Roll No.	
Test Date	06/06/2026
Test Time	9:00 AM - 12:00 PM
Subject	6th June 26 D18S1 DS41 Combination 36

Section : English

Q.1

Identify the **figure of speech** used in the following lines:-

'The house was crouching on its elbows then,'

Choose the appropriate option from the ones given below:-

1. Personification
2. Alliteration
3. Simile
4. Hyperbole

Options 1. 1

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 29472616486

Option 1 ID : 29472664189

Option 2 ID : 29472664190

Option 3 ID : 29472664191

Option 4 ID : 29472664192

Status : Answered

Chosen Option : 4

Q.2

Fill in the blanks in the sentences given in **List-I** with the appropriate Idioms given in **List-II**

List-I	List-II
Sentences	Idioms
(A) The persuasive powers of his friends proved successful and he _____.	(I) to live the life of Reilly
(B) After inheriting her family fortunes, she is going _____.	(II) hold your horses
(C) Please _____ and do not jump to unfounded conclusions.	(III) cloud nine
(D) When my brother was selected in the NDA, he was on _____.	(IV) knuckled under

Choose the **correct** answer from the options given below:

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

Options 1. 1

2. 2
3. 3
4. 4

Question Type : **MCQ**

Question ID : **29472616481**

Option 1 ID : **29472664169**

Option 2 ID : **29472664170**

Option 3 ID : **29472664171**

Option 4 ID : **29472664172**

Status : **Answered**

Chosen Option : **1**

Q.3

Choose the word similar in meaning to the underlined word in the following sentence:

Vitality and zest for life were at a vanishing point, spirituality glowed but in fitful embers.

1. zenith
2. enthusiasm
3. propensity
4. satisfaction

Options 1. 1

2. 2
3. 3
4. 4

Question Type : **MCQ**

Question ID : **29472616455**

Option 1 ID : **29472664065**

Option 2 ID : **29472664066**

Option 3 ID : **29472664067**

Option 4 ID : **29472664068**

Status : **Answered**

Chosen Option : **2**

Q.4

Rearrange the following phrases to form a meaningful sentence:

- (A) actions of characters and dialogues
- (B) intended to be
- (C) a drama is a composition in prose or verse
- (D) acted on stage through

Choose the **correct** answer from the options given below:

- 1. (C), (B), (D), (A)
- 2. (A), (B), (C), (D)
- 3. (B), (A), (D), (C)
- 4. (D), (B), (C), (A)

Options 1. 1

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

Question Type : MCQ

Question ID : 29472616452

Option 1 ID : 29472664053

Option 2 ID : 29472664054

Option 3 ID : 29472664055

Option 4 ID : 29472664056

Status : Answered

Chosen Option : 1

Q.5

Choose the correctly spelled word from the given options:

- 1. Commisionor
- 2. commissioner
- 3. comissioner
- 4. commisioner

Options 1. 1

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

Question Type : MCQ

Question ID : 29472616464

Option 1 ID : 29472664101

Option 2 ID : 29472664102

Option 3 ID : 29472664103

Option 4 ID : 29472664104

Status : Answered

Chosen Option : 1

Q.6

Fill in the blank with the appropriate word from the options given:

As an employee working for a long time, you know too _____ who could have spilled the beans.

1. more
2. little
3. few
4. well

Options 1. 1

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 29472616471

Option 1 ID : 29472664129

Option 2 ID : 29472664130

Option 3 ID : 29472664131

Option 4 ID : 29472664132

Status : Answered

Chosen Option : 4

Q.7

Rearrange the following phrases to form a meaningful sentence:

(A) and saw her son in a blue shirt

(B) she came to the balcony

(C) surging on the rocking horse

(D) hearing some sound suddenly

Choose the **correct** answer from the options given below:

1. (D), (B), (A), (C)
2. (A), (B), (D), (C)
3. (B), (A), (D), (C)
4. (C), (B), (D), (A)

Options 1. 1

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 29472616453

Option 1 ID : 29472664057

Option 2 ID : 29472664058

Option 3 ID : 29472664059

Option 4 ID : 29472664060

Status : Answered

Chosen Option : 3

Q.8

Choose the correct passive construction of the given sentence from the options given :-

The government will offer incentives to contractors completing high priority projects.

1. The government will be offered incentives by contractors completing high priority projects.
2. Contractors who complete high priority projects would offer incentives to the government.
3. Contractors completing high priority projects would be offered incentives by the government
4. The government would offer incentives to contractors completing high priority projects

Options 1. 1

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 29472616488

Option 1 ID : 29472664197

Option 2 ID : 29472664198

Option 3 ID : 29472664199

Option 4 ID : 29472664200

Status : Answered

Chosen Option : 2

Q.9

Select the word which can replace the given phrase:.

The state of being legally responsible for something.

1. legitimate
2. liable
3. legalised
4. eligible

Options 1. 1

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 29472616465

Option 1 ID : 29472664105

Option 2 ID : 29472664106

Option 3 ID : 29472664107

Option 4 ID : 29472664108

Status : Answered

Chosen Option : 2

Q.10

Complete the sentence with the appropriate word from the given options:-

Her command over English is -----.

1. more excellent
2. most excellent
3. excellent
4. the most excellent

Options 1. 1

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 29472616470

Option 1 ID : 29472664125

Option 2 ID : 29472664126

Option 3 ID : 29472664127

Option 4 ID : 29472664128

Status : Answered

Chosen Option : 3

Q.11

Choose the sentences which show the correct usage of phrasal verbs:

- (A) The unruly students egged on him to break the lock and enter the dean's office.
- (B) We promise to wrap up the session before sun-down.
- (C) Please turn in the volume of your music system.
- (D) She will not come to school today as she has suddenly come up with viral fever.

Choose the **correct** answer from the options given below:

1. (A) and (C) only
2. (A) and (D) only
3. (A) and (B) only
4. (B) and (D) only

Options 1. 1

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 29472616485

Option 1 ID : 29472664185

Option 2 ID : 29472664186

Option 3 ID : 29472664187

Option 4 ID : 29472664188

Status : Answered

Chosen Option : 3

Q.12

Identify the Figure of Speech used in the given sentence :-

She was impressed to see shining silver spoons at the serving counter.

1. Pun
2. Alliteration
3. Oxymoron
4. Simile

Options 1. 1

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 29472616484

Option 1 ID : 29472664181

Option 2 ID : 29472664182

Option 3 ID : 29472664183

Option 4 ID : 29472664184

Status : Answered

Chosen Option : 2

Q.13

Rearrange the following phrases to form a meaningful sentence:

- (A) most roads and routes across Delhi NCR
- (B) appeared as a crimson streak on real-time traffic maps
- (C) and increased travel time
- (D) indicating high traffic volume

Choose the **correct** answer from the options given below:

1. (A), (B), (C), (D)
2. (B), (A), (D), (C)
3. (A), (B), (D), (C)
4. (C), (B), (D), (A)

Options 1. 1

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 29472616449

Option 1 ID : 29472664041

Option 2 ID : 29472664042

Option 3 ID : 29472664043

Option 4 ID : 29472664044

Status : Answered

Chosen Option : 3

Q.14

Fill in the blank in the sentence with the correct word from the options given:-

After a minor accident with a bus, Madan's movements are----- restricted, otherwise he is very active.

1. frequently
2. slightly
3. very much
4. entirely

Options 1. 1

2. 2
3. 3
4. 4

Question Type : **MCQ**

Question ID : **29472616474**

Option 1 ID : **29472664141**

Option 2 ID : **29472664142**

Option 3 ID : **29472664143**

Option 4 ID : **29472664144**

Status : **Answered**

Chosen Option : **2**

Q.15

Choose the word/words which are opposite in meaning to the given word.

Redress

(A) set right

(B) remedy

(C) retribution

(D) harm

Choose the **correct** answer from the options given below:

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

Options 1. 1

2. 2
3. 3
4. 4

Question Type : **MCQ**

Question ID : **29472616459**

Option 1 ID : **29472664081**

Option 2 ID : **29472664082**

Option 3 ID : **29472664083**

Option 4 ID : **29472664084**

Status : **Answered**

Chosen Option : **2**

Q.16

Fill in the blanks given in **List-I** with the correct words given in **List-II**

List-I	List-II
(A) He has changed a lot _____ I last saw him.	(I) although
(B) She arrived on time_____ it was raining cats and dogs.	(II) unless
(C) _____ there is an emergency don't disturb me.	(III) as
(D) Do unto others_____ you would have them do unto you.	(IV) since

Choose the **correct** answer from the options given below:

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

Options 1. 1

2. 2
3. 3
4. 4

Question Type : **MCQ**

Question ID : **29472616475**

Option 1 ID : **29472664145**

Option 2 ID : **29472664146**

Option 3 ID : **29472664147**

Option 4 ID : **29472664148**

Status : **Answered**

Chosen Option : **3**

Q.17

Select the word from the given options that is OPPOSITE to the meaning of the word-**TACITURN**.

1. tainted
2. reticent
3. garrulous
4. imprudent

Options 1. 1

2. 2
3. 3
4. 4

Question Type : **MCQ**

Question ID : **29472616456**

Option 1 ID : **29472664069**

Option 2 ID : **29472664070**

Option 3 ID : **29472664071**

Option 4 ID : **29472664072**

Status : **Answered**

Chosen Option : **2**

Q.18

Match the idioms given in **List-I** with their meanings given in **List-II**

List-I	List-II
Idioms	Meanings
(A) Hands full	(I) Leave in a difficult situation
(B) Hand in glove with	(II) To be busy
(C) grease someone's palm	(III) To be closely associated with
(D) Leave in the lurch	(IV) To bribe someone

Choose the **correct** answer from the options given below:

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

Options 1. 1

2. 2
3. 3
4. 4

Question Type : **MCQ**

Question ID : **29472616480**

Option 1 ID : **29472664165**

Option 2 ID : **29472664166**

Option 3 ID : **29472664167**

Option 4 ID : **29472664168**

Status : **Answered**

Chosen Option : **3**

Q.19

Choose the word which is correctly spelled from the given options:

1. Aggressive
2. Agressive
3. Agressiv
4. Aggressive

Options 1. 1

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 29472616466

Option 1 ID : 29472664109

Option 2 ID : 29472664110

Option 3 ID : 29472664111

Option 4 ID : 29472664112

Status : Answered

Chosen Option : 4

Q.20

Select the word from the given options that is similar in meaning to the word-VOLATILE.

1. unstable
2. trespass
3. transient
4. perpetual

Options 1. 1

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 29472616454

Option 1 ID : 29472664061

Option 2 ID : 29472664062

Option 3 ID : 29472664063

Option 4 ID : 29472664064

Status : Answered

Chosen Option : 2

Q.21

Rearrange the following phrases to form a meaningful sentence:

- (A) that true science fiction
- (B) is a creation of
- (C) I have often made the point
- (D) the last two centuries

Choose the **correct** answer from the options given below:

1. (A), (B), (C), (D)
2. (C), (A), (B), (D)
3. (B), (A), (D), (C)
4. (C), (B), (D), (A)

Options 1. 1

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 29472616451

Option 1 ID : 29472664049

Option 2 ID : 29472664050

Option 3 ID : 29472664051

Option 4 ID : 29472664052

Status : Answered

Chosen Option : 2

Q.22

Choose the word OPPOSITE in meaning to the underlined word in the following sentence:

She **declined** to participate in the soccer game.

1. supported
2. avoided
3. opposed
4. repudiated

Options 1. 1

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 29472616457

Option 1 ID : 29472664073

Option 2 ID : 29472664074

Option 3 ID : 29472664075

Option 4 ID : 29472664076

Status : Answered

Chosen Option : 1

Q.23

Match the idioms given in **List-I** with their meanings given in **List-II**

List-I	List-II
Idioms	Meanings
(A) Eat one's words	(I) Straightforward
(B) Fair and square	(II) Expressionless
(C) Play with fire	(III) Admit one's mistakes humbly
(D) Poker-faced	(IV) To do something dangerous

Choose the **correct** answer from the options given below:

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

Options 1. 1

2. 2
3. 3
4. 4

Question Type : **MCQ**

Question ID : **29472616479**

Option 1 ID : **29472664161**

Option 2 ID : **29472664162**

Option 3 ID : **29472664163**

Option 4 ID : **29472664164**

Status : **Answered**

Chosen Option : **4**

Q.24

Choose the correct transformation of the given sentence in Indirect Speech:-

The teacher said to the boy, "Why don't you bring your books?"

1. The teacher said to the boy that why don't you bring your books?
2. The teacher asked the boy why he didn't bring his books.
3. The teacher asked the boy, why didn't he bring your books?"
4. The teacher asked the boy, why didn't he bring his books.

Options 1. 1

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 29472616487

Option 1 ID : 29472664193

Option 2 ID : 29472664194

Option 3 ID : 29472664195

Option 4 ID : 29472664196

Status : Answered

Chosen Option : 2

Q.25

Fill in the blanks given in **List-I** with the words given in **List-II**

List-I	List-II
(A) He _____ the television when the bell rang.	(I) watch
(B) I,already, _____ this movie.	(II) watching
(C) The police teams are on duty to _____ over his whereabouts.	(III) have watched
(D) At this time tomorrow, you will be _____ the cricket match in London.	(IV) was watching

Choose the **correct** answer from the options given below:

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

Options 1. 1

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 29472616469

Option 1 ID : 29472664121

Option 2 ID : 29472664122

Option 3 ID : 29472664123

Option 4 ID : 29472664124

Status : Answered

Chosen Option : 2

Q.26

Fill in the blanks with the correct pair from the options given below.

Even in the present times, some people -----their votes according to their -----.

Choose the appropriate words from the given options:-

1. cast, caste
2. cast, casted
3. caste, casted
4. caste, cast

Options 1. 1

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 29472616461

Option 1 ID : 29472664089

Option 2 ID : 29472664090

Option 3 ID : 29472664091

Option 4 ID : 29472664092

Status : Answered

Chosen Option : 1

Q.27

Select the word/ words which mean the same as the given word.

Calumny

(A) Defamation

(B) Praise

(C) Vindication

(D) Aspersion

Choose the **correct** answer from the options given below:

1. (A) and (D) only
2. (A) and (B) only
3. (A) and (C) only
4. (B) and (C) only

Options 1. 1

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 29472616458

Option 1 ID : 29472664077

Option 2 ID : 29472664078

Option 3 ID : 29472664079

Option 4 ID : 29472664080

Status : Answered

Chosen Option : 2

Q.28

Fill in the blank with the correct option.

My friend had barely ___ to pull out of the garage when he realised that he had left the dog inside.

1. had been starting
2. have started
3. will start
4. started

Options 1. 1

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 29472616468

Option 1 ID : 29472664117

Option 2 ID : 29472664118

Option 3 ID : 29472664119

Option 4 ID : 29472664120

Status : Answered

Chosen Option : 4

Q.29

Rearrange the following phrases to form a meaningful sentence:

(A) following the guidelines of the Supreme Court,

(B) I appeal to the people of Delhi,

(C) as responsible citizens,

(D) to burn only green crackers

Choose the **most appropriate** answer from the options given below:

1. (B), (D), (C), (A)
2. (B), (C), (D), (A)
3. (A), (B), (C), (D)
4. (C), (D), (B), (A)

Options 1. 1

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 29472616450

Option 1 ID : 29472664045

Option 2 ID : 29472664046

Option 3 ID : 29472664047

Option 4 ID : 29472664048

Status : Answered

Chosen Option : 1

Q.30

Fill in the blanks in the sentences given in List I with the appropriate words given in List II:-

List-I	List-II
Sentences	Words
(A) A/an _____ studies secret writing and coded words.	(I) lexicographer
(B) A/an _____ compiles a dictionary.	(II) cartographer
(C) A/an _____ draws a map.	(III) anthropologist
(D) A/an _____ studies the evolution of mankind.	(IV) cryptographer

Choose the **correct** answer from the options given below:

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

Options 1. 1

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 29472616462

Option 1 ID : 29472664093

Option 2 ID : 29472664094

Option 3 ID : 29472664095

Option 4 ID : 29472664096

Status : Answered

Chosen Option : 4

Q.31

Fill in the blanks with the correct pair of words arranged sequentially:

I _____ now that his views on how to control pollution _____ worth listening to.

1. am convinced, are
2. am convinced, is
3. was convinced, is
4. have been convinced, is

Options 1. 1

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 29472616467

Option 1 ID : 29472664113

Option 2 ID : 29472664114

Option 3 ID : 29472664115

Option 4 ID : 29472664116

Status : Answered

Chosen Option : 4

Q.32

Fill in the blank by selecting the appropriate word from the options given below:-

As Rohit was driving fast, his car hit the divider and fell ----- a ditch.

1. on
2. into
3. inside
4. under

Options 1. 1

2. 2
3. 3
4. 4

Question Type : **MCQ**

Question ID : **29472616477**

Option 1 ID : **29472664153**

Option 2 ID : **29472664154**

Option 3 ID : **29472664155**

Option 4 ID : **29472664156**

Status : **Answered**

Chosen Option : **3**

Q.33

Choose the correct option given below to fill in the blank.

I could not stand in that room as there was a _____ smell.

1. fowl
2. foil
3. foul
4. fuel

Options 1. 1

2. 2
3. 3
4. 4

Question Type : **MCQ**

Question ID : **29472616460**

Option 1 ID : **29472664085**

Option 2 ID : **29472664086**

Option 3 ID : **29472664087**

Option 4 ID : **29472664088**

Status : **Answered**

Chosen Option : **2**

Q.34

Match the words given in **List-I** with the phrases given in **List-II**

List-I	List-II
Words	Phrases
(A) ERGONOMY	(I) The study of the human race
(B) ETHNOLOGY	(II) The study of earthquakes
(C) ARBORICULTURE	(III) The study of the effect of environment on workers
(D) SEISMOLOGY	(IV) Cultivation of trees and vegetables

Choose the **correct** answer from the options given below:

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

Options 1. 1

2. 2
3. 3
4. 4

Question Type : **MCQ**

Question ID : **29472616463**

Option 1 ID : **29472664097**

Option 2 ID : **29472664098**

Option 3 ID : **29472664099**

Option 4 ID : **29472664100**

Status : **Answered**

Chosen Option : **3**

Q.35

Fill in the blanks with the appropriate Phrasal Verbs from the options given below:-

The negotiations between the neighbouring states will surely ----- over the contentious river water issue.

1. break down
2. break in
3. break of
4. break with

Options 1. 1

2. 2
3. 3
4. 4

Question Type : **MCQ**

Question ID : **29472616482**

Option 1 ID : **29472664173**

Option 2 ID : **29472664174**

Option 3 ID : **29472664175**

Option 4 ID : **29472664176**

Status : **Answered**

Chosen Option : **1**

Q.36

Fill in the blank with the correct word from the options given below:-

Even at the risk of losing his job, as a man of character, he -----will not compromise with his morals.

1. steadfastly
2. surely
3. willingly
4. often

Options 1. 1

2. 2
3. 3
4. 4

Question Type : **MCQ**

Question ID : **29472616473**

Option 1 ID : **29472664137**

Option 2 ID : **29472664138**

Option 3 ID : **29472664139**

Option 4 ID : **29472664140**

Status : **Answered**

Chosen Option : **2**

Q.37

Fill in the blank with the appropriate word from the options given below.-

It is really difficult to deal ___those people who do not want to listen to others .

1. at
2. about
3. after
4. with

Options 1. 1

2. 2
3. 3
4. 4

Question Type : **MCQ**

Question ID : **29472616478**

Option 1 ID : **29472664157**

Option 2 ID : **29472664158**

Option 3 ID : **29472664159**

Option 4 ID : **29472664160**

Status : **Answered**

Chosen Option : **4**

Q.38

Given below are four sentences. Choose the one which is grammatically correct:-

1. I gave him a few coins I had.
2. I gave him few coins I had.
3. I gave him the few coins I had.
4. I gave him the fewer coins I had.

Options 1. 1

2. 2
3. 3
4. 4

Question Type : **MCQ**

Question ID : **29472616472**

Option 1 ID : **29472664133**

Option 2 ID : **29472664134**

Option 3 ID : **29472664135**

Option 4 ID : **29472664136**

Status : **Answered**

Chosen Option : **2**

Q.39

Fill in the blank with the appropriate word from the options given below:

The director is a perfectionist,____, he is seldom satisfied with average performance

1. hence
2. however
3. nevertheless
4. but

Options 1. 1

2. 2
3. 3
4. 4

Question Type : **MCQ**

Question ID : **29472616476**

Option 1 ID : **29472664149**

Option 2 ID : **29472664150**

Option 3 ID : **29472664151**

Option 4 ID : **29472664152**

Status : **Answered**

Chosen Option : **2**

Q.40

Fill in the blanks with the appropriate Phrasal Verb from the options given below:-

A snake might be hidden in this garden. You are advised to ----- the grass.

1. keep out
2. keep under
3. keep off
4. keep up

Options 1. 1

2. 2
3. 3
4. 4

Question Type : **MCQ**

Question ID : **29472616483**

Option 1 ID : **29472664177**

Option 2 ID : **29472664178**

Option 3 ID : **29472664179**

Option 4 ID : **29472664180**

Status : **Answered**

Chosen Option : **1**

Comprehension:

Read the given passage and answer the questions that follow:-

Declining Number of Elephants

All is not well with India's elephants. A population estimation exercise by the Wildlife Institute of India has suggested a disturbing decline in their number: the 2025 count is 22,446, 17% lower than in 2017, when the count was 27,312. Incidentally, the Centre informed the Lok Sabha in 2024 that India's pachyderm population, as per a synchronised estimation, was 29,964. These surveys are not comparable because of methodological differences. Experts have also said that the DNA model may have under-estimated the elephant count. These counters are valid, but there is enough and more evidence to be concerned about the health of the Indian elephants.

At least three inferences in the SAIFE report ask for close reading. One, the once-contiguous elephant population in the Western Ghats is rapidly splintering due to changing land use, including expanding commercial plantations, invasive plants, farmland fencing, human encroachment and mushrooming developmental projects, all of which impact elephant survival and migration. Two, habitats in East Central India face fragmentation and deterioration from unmitigated mining and infrastructure projects, habitat degradation and human use. This has prompted long-ranging elephants to venture into human dwellings, escalating human-wildlife conflict.

Three, the North East holds the second-largest elephant population in India but exploitation of natural resources since colonial times, driven by the productive nature of floodplains and geopolitics, has led to habitat loss and rising conflict with humans. The frequent reports of such conflicts and accidents on rail tracks from states such as Kerala, West Bengal and Assam confirm the anxieties recorded by the report. Project Elephant, established in 1992, needs a renewed push.

SubQuestion No : 41

Q.41

'Project Elephant' needs a renewed push because:

1. wildlife surveys are not conclusive.
2. farmland fencing has proved to be a boon.
3. human-wildlife conflict is on the rise.
4. the North East has the second largest elephant population.

Options 1. 1

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 29472616494

Option 1 ID : 29472664217

Option 2 ID : 29472664218

Option 3 ID : 29472664219

Option 4 ID : 29472664220

Status : Answered

Chosen Option : 3

Comprehension:

Read the given passage and answer the questions that follow:-

Declining Number of Elephants

All is not well with India's elephants. A population estimation exercise by the Wildlife Institute of India has suggested a disturbing decline in their number: the 2025 count is 22,446, 17% lower than in 2017, when the count was 27,312. Incidentally, the Centre informed the Lok Sabha in 2024 that India's pachyderm population, as per a synchronised estimation, was 29,964. These surveys are not comparable because of methodological differences. Experts have also said that the DNA model may have under-estimated the elephant count. These counters are valid, but there is enough and more evidence to be concerned about the health of the Indian elephants.

At least three inferences in the SAIFE report ask for close reading. One, the once-contiguous elephant population in the Western Ghats is rapidly splintering due to changing land use, including expanding commercial plantations, invasive plants, farmland fencing, human encroachment and mushrooming developmental projects, all of which impact elephant survival and migration. Two, habitats in East Central India face fragmentation and deterioration from unmitigated mining and infrastructure projects, habitat degradation and human use. This has prompted long-ranging elephants to venture into human dwellings, escalating human-wildlife conflict.

Three, the North East holds the second-largest elephant population in India but exploitation of natural resources since colonial times, driven by the productive nature of floodplains and geopolitics, has led to habitat loss and rising conflict with humans. The frequent reports of such conflicts and accidents on rail tracks from states such as Kerala, West Bengal and Assam confirm the anxieties recorded by the report. Project Elephant, established in 1992, needs a renewed push.

SubQuestion No : 42

Q.42

The changing land use in the Western Ghats is responsible for the----- of the elephant population.

1. augmentation
2. deterioration
3. sickness
4. migration

Options 1. 1

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 29472616491

Option 1 ID : 29472664205

Option 2 ID : 29472664206

Option 3 ID : 29472664207

Option 4 ID : 29472664208

Status : Answered

Chosen Option : 4

Comprehension:

Read the given passage and answer the questions that follow:-

Declining Number of Elephants

All is not well with India's elephants. A population estimation exercise by the Wildlife Institute of India has suggested a disturbing decline in their number: the 2025 count is 22,446, 17% lower than in 2017, when the count was 27,312. Incidentally, the Centre informed the Lok Sabha in 2024 that India's pachyderm population, as per a synchronised estimation, was 29,964. These surveys are not comparable because of methodological differences. Experts have also said that the DNA model may have under-estimated the elephant count. These counters are valid, but there is enough and more evidence to be concerned about the health of the Indian elephants.

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Three, the North East holds the second-largest elephant population in India but exploitation of natural resources since colonial times, driven by the productive nature of floodplains and geopolitics, has led to habitat loss and rising conflict with humans. The frequent reports of such conflicts and accidents on rail tracks from states such as Kerala, West Bengal and Assam confirm the anxieties recorded by the report. Project Elephant, established in 1992, needs a renewed push.

SubQuestion No : 43

Q.43

_____ have compelled the elephant population to invade human dwellings.

1. Infrastructure projects
2. Habitats in Central India
3. Contiguous elephant population
4. Health of the elephants

Options 1. 1

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 29472616492

Option 1 ID : 29472664209

Option 2 ID : 29472664210

Option 3 ID : 29472664211

Option 4 ID : 29472664212

Status : Answered

Chosen Option : 2

Comprehension:

Read the given passage and answer the questions that follow:-

Declining Number of Elephants

All is not well with India's elephants. A population estimation exercise by the Wildlife Institute of India has suggested a disturbing decline in their number: the 2025 count is 22,446, 17% lower than in 2017, when the count was 27,312. Incidentally, the Centre informed the Lok Sabha in 2024 that India's pachyderm population, as per a synchronised estimation, was 29,964. These surveys are not comparable because of methodological differences. Experts have also said that the DNA model may have under-estimated the elephant count. These counters are valid, but there is enough and more evidence to be concerned about the health of the Indian elephants.

At least three inferences in the SAIFE report ask for close reading. One, the once-contiguous elephant population in the Western Ghats is rapidly splintering due to changing land use, including expanding commercial plantations, invasive plants, farmland fencing, human encroachment and mushrooming developmental projects, all of which impact elephant survival and migration. Two, habitats in East Central India face fragmentation and deterioration from unmitigated mining and infrastructure projects, habitat degradation and human use. This has prompted long-ranging elephants to venture into human dwellings, escalating human-wildlife conflict.

Three, the North East holds the second-largest elephant population in India but exploitation of natural resources since colonial times, driven by the productive nature of floodplains and geopolitics, has led to habitat loss and rising conflict with humans. The frequent reports of such conflicts and accidents on rail tracks from states such as Kerala, West Bengal and Assam confirm the anxieties recorded by the report. Project Elephant, established in 1992, needs a renewed push.

SubQuestion No : 44

Q.44

Pachyderm population refers to the population of ____.

1. Wildlife
2. White Elephants
3. Humans
4. Elephants

Options 1. 1

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 29472616490

Option 1 ID : 29472664201

Option 2 ID : 29472664202

Option 3 ID : 29472664203

Option 4 ID : 29472664204

Status : Answered

Chosen Option : 4

Comprehension:

Read the given passage and answer the questions that follow:-

Declining Number of Elephants

All is not well with India's elephants. A population estimation exercise by the Wildlife Institute of India has suggested a disturbing decline in their number: the 2025 count is 22,446, 17% lower than in 2017, when the count was 27,312. Incidentally, the Centre informed the Lok Sabha in 2024 that India's pachyderm population, as per a synchronised estimation, was 29,964. These surveys are not comparable because of methodological differences. Experts have also said that the DNA model may have under-estimated the elephant count. These counters are valid, but there is enough and more evidence to be concerned about the health of the Indian elephants.

At least three inferences in the SAIFE report ask for close reading. One, the once-contiguous elephant population in the Western Ghats is rapidly splintering due to changing land use, including expanding commercial plantations, invasive plants, farmland fencing, human encroachment and mushrooming developmental projects, all of which impact elephant survival and migration. Two, habitats in East Central India face fragmentation and deterioration from unmitigated mining and infrastructure projects, habitat degradation and human use. This has prompted long-ranging elephants to venture into human dwellings, escalating human-wildlife conflict.

Three, the North East holds the second-largest elephant population in India but exploitation of natural resources since colonial times, driven by the productive nature of floodplains and geopolitics, has led to habitat loss and rising conflict with humans. The frequent reports of such conflicts and accidents on rail tracks from states such as Kerala, West Bengal and Assam confirm the anxieties recorded by the report. Project Elephant, established in 1992, needs a renewed push.

SubQuestion No : 45

Q.45

In the word PACHYDERM, **derm** means--

1. trunk
2. tusk
3. tail
4. skin

Options 1. 1

2. 2
3. 3
4. 4

Question Type : **MCQ**

Question ID : **29472616493**

Option 1 ID : **29472664213**

Option 2 ID : **29472664214**

Option 3 ID : **29472664215**

Option 4 ID : **29472664216**

Status : **Answered**

Chosen Option : **3**

Comprehension:

Read the following passage carefully and answer the questions that follow:-

When Tao Ying rides on the bus alone, quite often she does not bother to buy a ticket.

Why should she? Without her, the bus would still be stopping at every stop, a driver and a conductor would still have to be employed, and the same amount of petrol used.

Clearly Tao Ying has to be astute. When the bus conductor looked like the responsible type, she would buy a ticket as soon as she got on board. But if he appeared to be casual and careless, she would not dream of paying, considering it a small punishment for him and a little saving for herself.

Tao Ying works as a cook in the canteen of a factory. She spends all day next to an open fire, baking screw-shaped wheat cakes with sesame butter.

Today she is with her son Xiao Ye. She follows him onto the bus. As the doors shut her jacket is caught, ballooning up like a tent behind her. She twists this way and that, finally wrenching herself free.

'Mama, tickets!' Xiao Ye says. Children are often more conscious of rituals than adults. Without a ticket in his hand, the ride doesn't count as a proper ride.

On the peeling paint of the door somebody has painted the shape of a pale finger. It points at a number: 1.10 m.

Xiao Ye pushed through. His hair looks as fluffy as a bundle of straw-dry and without lustre. As a rule, Tao Ying is very careful with her purse, but she has never skimped on her child's diet. Nonetheless, the goodness in his food refuses to advance beyond his hairline. As a result, Xiao Ye is healthy and clever, but his hair is a mess.

SubQuestion No : 46

Q.46

Which of the following does not hold true for the protagonist of the story?

1. She is a law abiding citizen.
2. She is astute.
3. Plentitude is her second name.
4. She works in highly conducive environment.

Options 1. 1

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 29472616496

Option 1 ID : 29472664221

Option 2 ID : 29472664222

Option 3 ID : 29472664223

Option 4 ID : 29472664224

Status : Answered

Chosen Option : 2

Comprehension:

Read the following passage carefully and answer the questions that follow:-

When Tao Ying rides on the bus alone, quite often she does not bother to buy a ticket.

Why should she? Without her, the bus would still be stopping at every stop, a driver and a conductor would still have to be employed, and the same amount of petrol used.

Clearly Tao Ying has to be astute. When the bus conductor looked like the responsible type, she would buy a ticket as soon as she got on board. But if he appeared to be casual and careless, she would not dream of paying, considering it a small punishment for him and a little saving for herself.

Tao Ying works as a cook in the canteen of a factory. She spends all day next to an open fire, baking screw-shaped wheat cakes with sesame butter.

Today she is with her son Xiao Ye. She follows him onto the bus. As the doors shut her jacket is caught, ballooning up like a tent behind her. She twists this way and that, finally wrenching herself free.

'Mama, tickets!' Xiao Ye says. Children are often more conscious of rituals than adults. Without a ticket in his hand, the ride doesn't count as a proper ride.

On the peeling paint of the door somebody has painted the shape of a pale finger. It points at a number: 1.10 m.

Xiao Ye pushed through. His hair looks as fluffy as a bundle of straw-dry and without lustre. As a rule, Tao Ying is very careful with her purse, but she has never skimped on her child's diet. Nonetheless, the goodness in his food refuses to advance beyond his hairline. As a result, Xiao Ye is healthy and clever, but his hair is a mess.

SubQuestion No : 47

Q.47

'She has never skimped on her child's diet' clearly states that:

1. She is a strict mother.
2. She wants to save on eatables.
3. She is careful about her child's nutritive requirements.
4. She takes her maternal duties for granted.

Options 1. 1

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 29472616500

Option 1 ID : 29472664237

Option 2 ID : 29472664238

Option 3 ID : 29472664239

Option 4 ID : 29472664240

Status : Answered

Chosen Option : 2

Comprehension:

Read the following passage carefully and answer the questions that follow:-

When Tao Ying rides on the bus alone, quite often she does not bother to buy a ticket.

Why should she? Without her, the bus would still be stopping at every stop, a driver and a conductor would still have to be employed, and the same amount of petrol used.

Clearly Tao Ying has to be astute. When the bus conductor looked like the responsible type, she would buy a ticket as soon as she got on board. But if he appeared to be casual and careless, she would not dream of paying, considering it a small punishment for him and a little saving for herself.

Tao Ying works as a cook in the canteen of a factory. She spends all day next to an open fire, baking screw-shaped wheat cakes with sesame butter.

Today she is with her son Xiao Ye. She follows him onto the bus. As the doors shut her jacket is caught, ballooning up like a tent behind her. She twists this way and that, finally wrenching herself free.

'Mama, tickets!' Xiao Ye says. Children are often more conscious of rituals than adults. Without a ticket in his hand, the ride doesn't count as a proper ride.

On the peeling paint of the door somebody has painted the shape of a pale finger. It points at a number: 1.10 m.

Xiao Ye pushed through. His hair looks as fluffy as a bundle of straw-dry and without lustre. As a rule, Tao Ying is very careful with her purse, but she has never skimmed on her child's diet. Nonetheless, the goodness in his food refuses to advance beyond his hairline. As a result, Xiao Ye is healthy and clever, but his hair is a mess.

SubQuestion No : 48

Q.48

Tao Ying's son's concern about the ticket shows that children, compared to adults, are :

1. lackadaisical
2. reckless
3. conscientious
4. dexterous

Options 1. 1

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 29472616498

Option 1 ID : 29472664229

Option 2 ID : 29472664230

Option 3 ID : 29472664231

Option 4 ID : 29472664232

Status : Answered

Chosen Option : 2

Comprehension:

Read the following passage carefully and answer the questions that follow:-

When Tao Ying rides on the bus alone, quite often she does not bother to buy a ticket.

Why should she? Without her, the bus would still be stopping at every stop, a driver and a conductor would still have to be employed, and the same amount of petrol used.

Clearly Tao Ying has to be astute. When the bus conductor looked like the responsible type, she would buy a ticket as soon as she got on board. But if he appeared to be casual and careless, she would not dream of paying, considering it a small punishment for him and a little saving for herself.

Tao Ying works as a cook in the canteen of a factory. She spends all day next to an open fire, baking screw-shaped wheat cakes with sesame butter.

Today she is with her son Xiao Ye. She follows him onto the bus. As the doors shut her jacket is caught, ballooning up like a tent behind her. She twists this way and that, finally wrenching herself free.

'Mama, tickets!' Xiao Ye says. Children are often more conscious of rituals than adults. Without a ticket in his hand, the ride doesn't count as a proper ride.

On the peeling paint of the door somebody has painted the shape of a pale finger. It points at a number: 1.10 m.

Xiao Ye pushed through. His hair looks as fluffy as a bundle of straw-dry and without lustre. As a rule, Tao Ying is very careful with her purse, but she has never skimped on her child's diet. Nonetheless, the goodness in his food refuses to advance beyond his hairline. As a result, Xiao Ye is healthy and clever, but his hair is a mess.

SubQuestion No : 49

Q.49

The poetic device used in the line 'his hair looks as fluffy as a bundle of straw' is:

1. metaphor
2. irony
3. personification
4. simile

Options 1. 1

2. 2

3. 3

4. 4

Question Type : MCQ

Question ID : 29472616499

Option 1 ID : 29472664233

Option 2 ID : 29472664234

Option 3 ID : 29472664235

Option 4 ID : 29472664236

Status : Answered

Chosen Option : 4

Comprehension:

Read the following passage carefully and answer the questions that follow:-

When Tao Ying rides on the bus alone, quite often she does not bother to buy a ticket.

Why should she? Without her, the bus would still be stopping at every stop, a driver and a conductor would still have to be employed, and the same amount of petrol used.

Clearly Tao Ying has to be astute. When the bus conductor looked like the responsible type, she would buy a ticket as soon as she got on board. But if he appeared to be casual and careless, she would not dream of paying, considering it a small punishment for him and a little saving for herself.

Tao Ying works as a cook in the canteen of a factory. She spends all day next to an open fire, baking screw-shaped wheat cakes with sesame butter.

Today she is with her son Xiao Ye. She follows him onto the bus. As the doors shut her jacket is caught, ballooning up like a tent behind her. She twists this way and that, finally wrenching herself free.

'Mama, tickets!' Xiao Ye says. Children are often more conscious of rituals than adults. Without a ticket in his hand, the ride doesn't count as a proper ride.

On the peeling paint of the door somebody has painted the shape of a pale finger. It points at a number: 1.10 m.

Xiao Ye pushed through. His hair looks as fluffy as a bundle of straw-dry and without lustre. As a rule, Tao Ying is very careful with her purse, but she has never skimmed on her child's diet. Nonetheless, the goodness in his food refuses to advance beyond his hairline. As a result, Xiao Ye is healthy and clever, but his hair is a mess.

SubQuestion No : 50

Q.50

Tao Ying is 'very careful with her purse'. This means that :

1. She is paranoid about being robbed.
2. She is particular about carrying the most fashionable purse.
3. Her purse is an unwanted burden.
4. She is frugal by nature.

Options 1. 1

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 29472616497

Option 1 ID : 29472664225

Option 2 ID : 29472664226

Option 3 ID : 29472664227

Option 4 ID : 29472664228

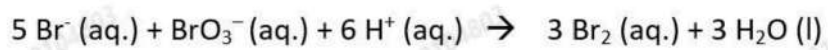
Status : Answered

Chosen Option : 1

Section : Chemistry

Q.1

For the following reaction choose the **incorrect** expression of rate of reaction.



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

2. $\text{Rate} = -\frac{1}{6} \frac{\Delta[\text{H}^+]}{\Delta t}$

3. $\text{Rate} = -\frac{1}{3} \frac{\Delta[\text{Br}_2]}{\Delta t}$

4. $\text{Rate} = -\frac{\Delta[\text{BrO}_3^-]}{\Delta t}$

Options 1. 1

2. 2

3. 3

4. 4

Question Type : MCQ

Question ID : 29472616712

Option 1 ID : 29472665061

Option 2 ID : 29472665062

Option 3 ID : 29472665063

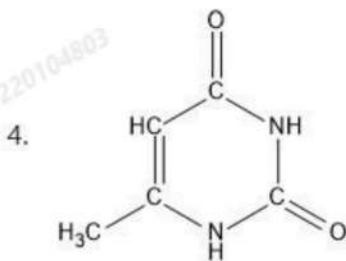
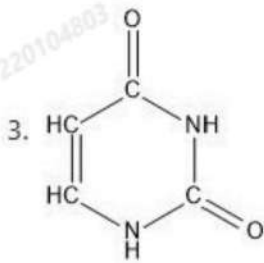
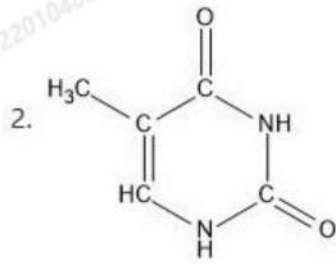
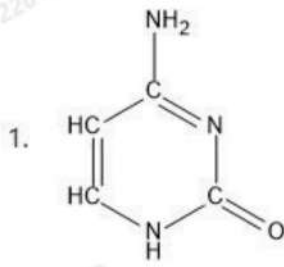
Option 4 ID : 29472665064

Status : Answered

Chosen Option : 3

Q.2

What would be the correct structure of thymine base?



Options 1. 1

2. 2

3. 3

4. 4

Question Type : MCQ

Question ID : 29472616737

Option 1 ID : 29472665161

Option 2 ID : 29472665162

Option 3 ID : 29472665163

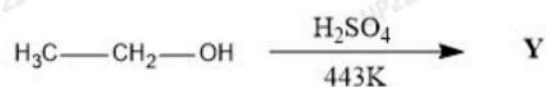
Option 4 ID : 29472665164

Status : Answered

Chosen Option : 2

Q.3

What is the product Y in the following chemical reaction?



1. $\text{C}_2\text{H}_5\text{OCH}_3$
2. $\text{C}_2\text{H}_5\text{OC}_2\text{H}_5$
3. CH_3OCH_3
4. $\text{H}_2\text{C}=\text{CH}_2$

Options 1. 1

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 29472616745

Option 1 ID : 29472665193

Option 2 ID : 29472665194

Option 3 ID : 29472665195

Option 4 ID : 29472665196

Status : Answered

Chosen Option : 3

Q.4

The order of a reaction whose rate constant $k = 0.693 \times 10^{-6} \text{ L mol}^{-1} \text{ s}^{-1}$ is

1. 0
2. 1
3. 2
4. 3

Options 1. 1

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 29472616713

Option 1 ID : 29472665065

Option 2 ID : 29472665066

Option 3 ID : 29472665067

Option 4 ID : 29472665068

Status : Answered

Chosen Option : 3

Q.5

Choose the **Incorrect** option regarding valence bond theory of coordination compound.

1. It does not give a quantitative interpretation of the thermodynamic stabilities of coordination compounds.
2. It does not explain the colour exhibited by coordination compounds.
3. It does not give quantitative interpretation of magnetic data.
4. It does not distinguish between outer orbital and inner orbital complexes.

Options 1. 1

2. 2
3. 3
4. 4

Question Type : **MCQ**

Question ID : **29472616730**

Option 1 ID : **29472665133**

Option 2 ID : **29472665134**

Option 3 ID : **29472665135**

Option 4 ID : **29472665136**

Status : **Answered**

Chosen Option : **4**

Q.6

Limiting Molar conductivities for some ions in water at 298 K is

Ion	λ° (S m ² mol ⁻¹)
H ⁺	349.6
Na ⁺	50.1
Ca ²⁺	119.0
Mg ²⁺	106.0
Cl ⁻	76.3
SO ₄ ²⁻	160

Choose the **correct** decreasing order of Λ_m for NaCl, HCl, CaCl₂, and MgSO₄ from the options given below:

1. HCl , CaCl₂ , MgSO₄ , NaCl
2. HCl , CaCl₂ , NaCl , MgSO₄
3. NaCl , CaCl₂ , MgSO₄ , HCl
4. NaCl , HCl , CaCl₂ , MgSO₄

Options 1. 1

2. 2
3. 3
4. 4

Question Type : **MCQ**

Question ID : **29472616718**

Option 1 ID : **29472665085**

Option 2 ID : **29472665086**

Option 3 ID : **29472665087**

Option 4 ID : **29472665088**

Status : **Answered**

Chosen Option : **1**

Q.7

Arrange the compounds in order of their increasing boiling points.

- (A) 1-bromoethane
- (B) 1-bromobutane
- (C) 2-bromo-2-methylpropane
- (D) 2-bromobutane

Choose the **correct** answer from the options given below:

- 1. (A), (C), (D), (B)
- 2. (A), (D), (C), (B)
- 3. (C), (D), (A), (B)
- 4. (C), (A), (D), (B)

Options 1. 1

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

Question Type : **MCQ**

Question ID : **29472616740**

Option 1 ID : **29472665173**

Option 2 ID : **29472665174**

Option 3 ID : **29472665175**

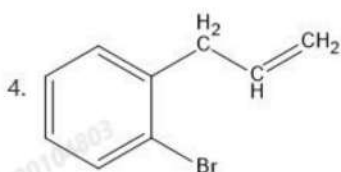
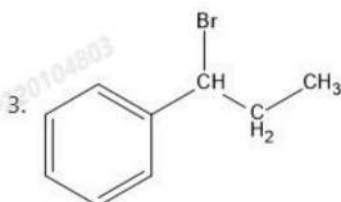
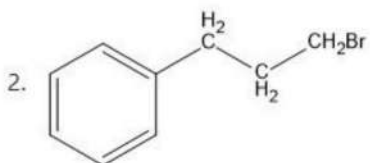
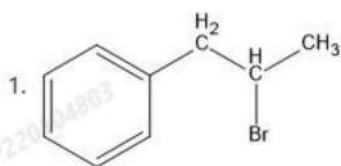
Option 4 ID : **29472665176**

Status : **Answered**

Chosen Option : **1**

Q.8

Write the major product A in the following chemical reaction.



Options 1. 1

2. 2

3. 3

4. 4

Question Type : MCQ

Question ID : 29472616739

Option 1 ID : 29472665169

Option 2 ID : 29472665170

Option 3 ID : 29472665171

Option 4 ID : 29472665172

Status : Answered

Chosen Option : 2

Q.9

The complex $[\text{Co}(\text{NH}_3)_6]^{3+}$ is

1. sp^3d^2 hybridised, and paramagnetic in nature.
2. sp^3d^2 hybridised, and diamagnetic in nature.
3. d^2sp^3 hybridised, and paramagnetic in nature.
4. d^2sp^3 hybridised, and diamagnetic in nature.

Options 1. 1

2. 2
3. 3
4. 4

Question Type : **MCQ**

Question ID : **29472616727**

Option 1 ID : **29472665121**

Option 2 ID : **29472665122**

Option 3 ID : **29472665123**

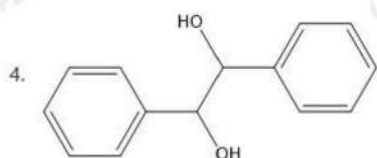
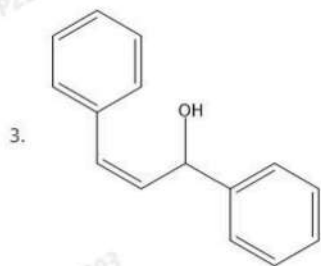
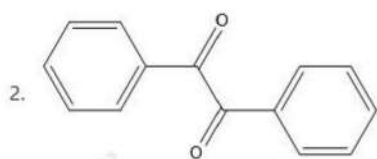
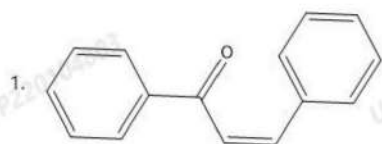
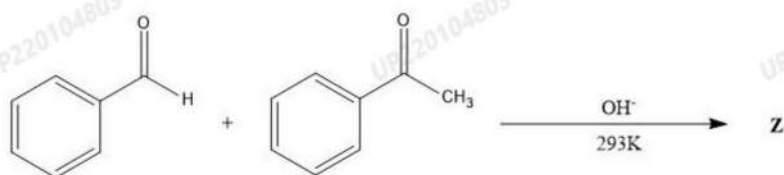
Option 4 ID : **29472665124**

Status : **Answered**

Chosen Option : **3**

Q.10

The major product Z in the following chemical reaction is



Options 1. 1

2. 2

3. 3

4. 4

Question Type : MCQ

Question ID : 29472616749

Option 1 ID : 29472665209

Option 2 ID : 29472665210

Option 3 ID : 29472665211

Option 4 ID : 29472665212

Status : Answered

Chosen Option : 2

Q.11

Arrange the following 3d-series elements in **decreasing** order of their 2nd ionisation enthalpy

(A) Ti (Z=22)

(B) V (Z=23)

(C) Cr (Z=24)

(D) Mn (Z=25)

Choose the **correct** answer from the options given below:

1. (C), (B), (D), (A)
2. (D), (C), (B), (A)
3. (D), (B), (C), (A)
4. (C), (D), (B), (A)

Options 1. 1

2. 2

3. 3

4. 4

Question Type : MCQ

Question ID : 29472616725

Option 1 ID : 29472665113

Option 2 ID : 29472665114

Option 3 ID : 29472665115

Option 4 ID : 29472665116

Status : Answered

Chosen Option : 4

Q.12

The **reagent** used in the **Stephen reaction** is

1. Pd-BaSO₄ + H₂

2. SnCl₂ + HCl

3. AlH (i-Bu)₂ + H₂O

4. DIBAL-H + H₂O

Options 1. 1

2. 2

3. 3

4. 4

Question Type : MCQ

Question ID : 29472616747

Option 1 ID : 29472665201

Option 2 ID : 29472665202

Option 3 ID : 29472665203

Option 4 ID : 29472665204

Status : Answered

Chosen Option : 2

Q.13

The following reaction can be best described as:



1. Coupling
2. Disproportionation
3. Displacement
4. Oxidative fusion

Options 1. 1

2. 2
3. 3
4. 4

Question Type : **MCQ**

Question ID : **29472616724**

Option 1 ID : **29472665109**

Option 2 ID : **29472665110**

Option 3 ID : **29472665111**

Option 4 ID : **29472665112**

Status : **Answered**

Chosen Option : **2**

Q.14

Match **List-I** with **List-II**

List-I	List-II
Quantity	Units
(A) Conductivity	(I) ohm
(B) Molar Conductivity	(II) S
(C) Resistance	(III) S cm ⁻¹
(D) Conductance	(IV) S cm ² mol ⁻¹

Choose the **correct** answer from the options given below:

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

Options 1. 1

2. 2
3. 3
4. 4

Question Type : **MCQ**

Question ID : **29472616721**

Option 1 ID : **29472665097**

Option 2 ID : **29472665098**

Option 3 ID : **29472665099**

Option 4 ID : **29472665100**

Status : **Answered**

Chosen Option : **2**

Q.15

Select the correct statements related to carbohydrates :

- (A) Glucose is also known as dextrose.
- (B) In Glucose, an aldehydic group is present, and it gives Schiff's test.
- (C) Glycogen is also known as animal starch.
- (D) Lactose is a reducing sugar.

Choose the **correct** answer from the options given below:

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

Options 1. 1

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

Question Type : MCQ

Question ID : 29472616729

Option 1 ID : 29472665129

Option 2 ID : 29472665130

Option 3 ID : 29472665131

Option 4 ID : 29472665132

Status : Answered

Chosen Option : 3

Q.16

Consider the following statements and choose the correct statements

(A) The bond angle $\text{C}-\text{O}-\text{H}$ in methanol is slightly higher than the tetrahedral angle.

(B) The reaction of Grignard reagent with methanal produces a secondary alcohol.

(C) The boiling point of ethanol is higher than methoxymethane.

(D) Acetylation of Salicylic acid produces Aspirin.

Choose the **correct** statements from the options given below:

1. (A) and (D) only
2. (A) and (B) only
3. (B) and (C) only
4. (C) and (D) only

Options 1. 1

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 29472616742

Option 1 ID : 29472665181

Option 2 ID : 29472665182

Option 3 ID : 29472665183

Option 4 ID : 29472665184

Status : Answered

Chosen Option : 4

Q.17

Arrange the following compounds in increasing order of their acid strength.

- (A) Phenol
- (B) *m*-Nitrophenol
- (C) *p*-Nitrophenol
- (D) *p*-Cresol

Choose the **correct** answer from the options given below:

- 1. (A) , (D) , (B) , (C)
- 2. (D) , (A) , (C) , (B)
- 3. (D) , (A) , (B) , (C)
- 4. (D) , (B) , (A) , (C)

Options 1. 1

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

Question Type : MCQ

Question ID : 29472616743

Option 1 ID : 29472665185

Option 2 ID : 29472665186

Option 3 ID : 29472665187

Option 4 ID : 29472665188

Status : Answered

Chosen Option : 2

Q.18

Which of the following reaction will not result in the formation of C-C bonds?

- 1. Wurtz reaction
- 2. Friedel-Crafts acylation reaction
- 3. Reimer-Tiemann reaction
- 4. Cannizzaro reaction

Options 1. 1

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

Question Type : MCQ

Question ID : 29472616751

Option 1 ID : 29472665217

Option 2 ID : 29472665218

Option 3 ID : 29472665219

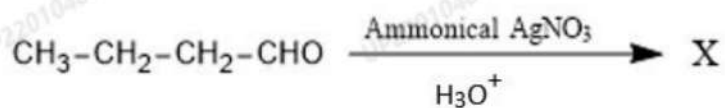
Option 4 ID : 29472665220

Status : Answered

Chosen Option : 4

Q.19

What is the final product X in the following reaction?



1. $\text{CH}_3\text{CH}_2\text{CH}_2\text{CH}_2\text{NH}_2$
2. $\text{CH}_3\text{CH}_2\text{CH}_2\text{COOH}$
3. $\text{CH}_3\text{CH}_2\text{CH}_2\text{CH}_2\text{NO}_2$
4. $\text{CH}_3\text{CH}_2\text{CH}_2\text{CH}_3$

Options 1. 1

2. 2

3. 3

4. 4

Question Type : MCQ

Question ID : 29472616750

Option 1 ID : 29472665213

Option 2 ID : 29472665214

Option 3 ID : 29472665215

Option 4 ID : 29472665216

Status : Answered

Chosen Option : 1

Q.20

Match **List-I** with **List-II**

List-I	List-II
(A) Collision Theory	(I) $k = \frac{[R]_0 - [R]}{t}$
(B) Arrhenius Equation	(II) $k = A e^{-E_a / RT}$
(C) Rate constant for zero order	(III) $k = \frac{1}{t} \ln \frac{[R]_0}{[R]}$
(D) Rate constant for first order	(IV) $\text{Rate} = PZ_{AB} e^{-E_a / RT}$

Choose the **correct** answer from the options given below:

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

Options 1. 1

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 29472616719

Option 1 ID : 29472665089

Option 2 ID : 29472665090

Option 3 ID : 29472665091

Option 4 ID : 29472665092

Status : Answered

Chosen Option : 2

Q.21

IUPAC name of $[\text{Co}(\text{NH}_3)_4(\text{H}_2\text{O})\text{Cl}]\text{Cl}_2$

1. Tetraammineaquachloridocobalt(II) chloride
2. Tetraammineaquachloridocobalt(III) chloride
3. Tetraammineaquachloridocobalt(I) chloride
4. Tetraammineaquachloridocobalt(0) chloride

Options 1. 1

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 29472616728

Option 1 ID : 29472665125

Option 2 ID : 29472665126

Option 3 ID : 29472665127

Option 4 ID : 29472665128

Status : Answered

Chosen Option : 2

Q.22

75% of a first order reaction was completed in 32 minutes. How long will it take to undergo 50% completion?

Given: $\log 2 = 0.3010$

1. 8 min
2. 12 min
3. 16 min
4. 24 min

Options 1. 1

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 29472616714

Option 1 ID : 29472665069

Option 2 ID : 29472665070

Option 3 ID : 29472665071

Option 4 ID : 29472665072

Status : Answered

Chosen Option : 2

Q.23

Standard electrode potentials (M^{n+}/M) of four metals A, B, C and D are given below:

(A) - 1.2 V

(B) + 0.5 V

(C) + 1.2 V

(D) - 3.0 V

The **correct** increasing order for the reducing power of these metals will be:

1. (D), (A), (C), (B).

2. (D), (A), (B), (C).

3. (C), (B), (A), (D).

4. (B), (C), (A), (D).

Options 1. 1

2. 2

3. 3

4. 4

Question Type : MCQ

Question ID : 29472616717

Option 1 ID : 29472665081

Option 2 ID : 29472665082

Option 3 ID : 29472665083

Option 4 ID : 29472665084

Status : Answered

Chosen Option : 3

Q.24

Choose the optically inactive amino acid from the following.

1. Glycine

2. Alanine

3. Leucine

4. Isoleucine

Options 1. 1

2. 2

3. 3

4. 4

Question Type : MCQ

Question ID : 29472616735

Option 1 ID : 29472665153

Option 2 ID : 29472665154

Option 3 ID : 29472665155

Option 4 ID : 29472665156

Status : Answered

Chosen Option : 1

Q.25

Match **Ion** given in **List I** with their **Magnetic moment (Calculated)** given in **List II**

List I	List II
Ion	Magnetic moment (Calculated)
(A) Sc^{3+}	(I) 3.87
(B) Ti^{3+}	(II) 1.73
(C) V^{2+}	(III) 5.92
(D) Mn^{2+}	(IV) 0

Choose the **correct** answer from the options given below:

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

Options 1. 1

2. 2
3. 3
4. 4

Question Type : **MCQ**

Question ID : **29472616732**

Option 1 ID : **29472665141**

Option 2 ID : **29472665142**

Option 3 ID : **29472665143**

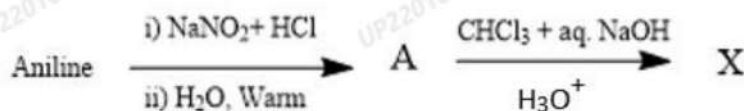
Option 4 ID : **29472665144**

Status : **Answered**

Chosen Option : **1**

Q.26

What would be the product X in the following chemical reaction?



1. Salicylic acid
2. Benzoquinone
3. Salicylaldehyde
4. 4-Hydroxybenzoic acid

Options 1. 1

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 29472616746

Option 1 ID : 29472665197

Option 2 ID : 29472665198

Option 3 ID : 29472665199

Option 4 ID : 29472665200

Status : Answered

Chosen Option : 3

Q.27

What are the hydrolysis products of **Maltose**?

1. α -D-Glucose + β -D-Fructose
2. α -D-Glucose + β -D-Glucose
3. α -D-Glucose + α -D-Glucose
4. β -D-Galactose + β -D-Glucose

Options 1. 1

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 29472616734

Option 1 ID : 29472665149

Option 2 ID : 29472665150

Option 3 ID : 29472665151

Option 4 ID : 29472665152

Status : Answered

Chosen Option : 3

Q.28

Select the **correct** assumptions in Crystal Field Theory (CFT) from the following:

- (A) Ligands are treated as point charge or point dipole.
- (B) The five d orbitals in an isolated gaseous metal atom are non-degenerate
- (C) Degeneracy of the d orbitals is restored with the approach of ligand towards metal
- (D) Metal-ligand bond is ionic arising purely from electrostatic interactions

Choose the **correct** answer from the options given below:

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

Options 1. 1

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

Question Type : **MCQ**

Question ID : **29472616731**

Option 1 ID : **29472665137**

Option 2 ID : **29472665138**

Option 3 ID : **29472665139**

Option 4 ID : **29472665140**

Status : **Answered**

Chosen Option : **2**

Q.29

Choose the symbol of a lanthanoid metal which is well known to exhibit +4 oxidation state.

- 1. La
- 2. Th
- 3. Ce
- 4. Cm

Options 1. 1

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

Question Type : **MCQ**

Question ID : **29472616723**

Option 1 ID : **29472665105**

Option 2 ID : **29472665106**

Option 3 ID : **29472665107**

Option 4 ID : **29472665108**

Status : **Answered**

Chosen Option : **3**

Q.30

Which of the following compounds does not undergo Cannizzaro reaction?

1. Formaldehyde
2. 2,2-Dimethylbutanal
3. Benzaldehyde
4. Acetaldehyde

Options 1. 1

2. 2

3. 3

4. 4

Question Type : **MCQ**

Question ID : **29472616748**

Option 1 ID : **29472665205**

Option 2 ID : **29472665206**

Option 3 ID : **29472665207**

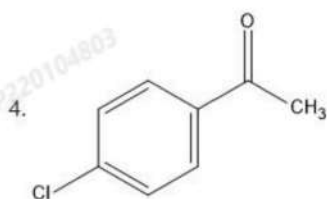
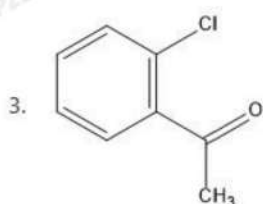
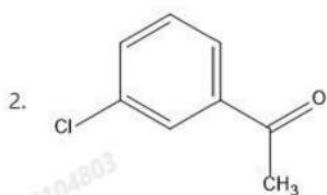
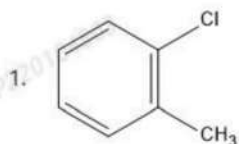
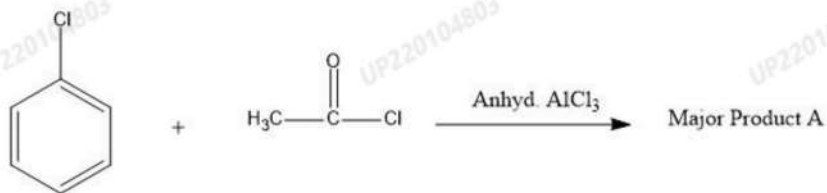
Option 4 ID : **29472665208**

Status : **Answered**

Chosen Option : **2**

Q.31

What would be the major product **A** ?



Options 1. 1

2. 2

3. 3

4. 4

Question Type : MCQ

Question ID : 29472616738

Option 1 ID : 29472665165

Option 2 ID : 29472665166

Option 3 ID : 29472665167

Option 4 ID : 29472665168

Status : Answered

Chosen Option : 4

Q.32

Which of the following statements are **incorrect** for thermodynamic properties?

- (A) Both E_{cell} and $\Delta_r G$ of reaction are extensive properties.
- (B) Both E_{cell} and $\Delta_r G$ of reaction are intensive properties.
- (C) E_{cell} is an intensive property while $\Delta_r G$ of reaction is an extensive property.
- (D) E_{cell} is an extensive property while $\Delta_r G$ of reaction is an intensive property.

Choose the answer from the options given below:

- 1. (A), (B) and (D) 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 : 29472616716
Option 1 ID : 29472665077
Option 2 ID : 29472665078
Option 3 ID : 29472665079
Option 4 ID : 29472665080
Status : Answered
Chosen Option : 1

Q.33

What would be the geometrical shape of $[\text{NiCl}_4]^{2-}$ and $[\text{PtCl}_4]^{2-}$ compounds?

- 1. Both $[\text{NiCl}_4]^{2-}$ and $[\text{PtCl}_4]^{2-}$ are square planar.
- 2. Both $[\text{NiCl}_4]^{2-}$ and $[\text{PtCl}_4]^{2-}$ are tetrahedral.
- 3. $[\text{NiCl}_4]^{2-}$ is square planar while $[\text{PtCl}_4]^{2-}$ is tetrahedral.
- 4. $[\text{NiCl}_4]^{2-}$ is tetrahedral while $[\text{PtCl}_4]^{2-}$ is square planar

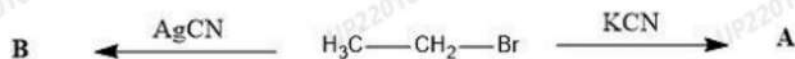
Options 1. 1

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

Question Type : MCQ
Question ID : 29472616726
Option 1 ID : 29472665117
Option 2 ID : 29472665118
Option 3 ID : 29472665119
Option 4 ID : 29472665120
Status : Answered
Chosen Option : 2

Q.34

The major products **A** and **B** formed in the following reaction are :



1. A = CH₃CH₂CN
B = CH₃CH₂NC
2. A = CH₃CH₂CN
B = CH₃CH₂CN
3. A = CH₃CH₂NC
B = CH₃CH₂NC
4. A = CH₃CH₂NC
B = CH₃CH₂CN

Options 1. 1

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 29472616741

Option 1 ID : 29472665177

Option 2 ID : 29472665178

Option 3 ID : 29472665179

Option 4 ID : 29472665180

Status : Answered

Chosen Option : 1

Q.35

Choose the transition element which exhibit least number of variable oxidation states.

1. Sc
2. Cr
3. Mn
4. Fe

Options 1. 1

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 29472616722

Option 1 ID : 29472665101

Option 2 ID : 29472665102

Option 3 ID : 29472665103

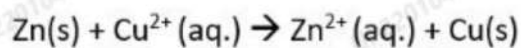
Option 4 ID : 29472665104

Status : Answered

Chosen Option : 1

Q.36

The standard Gibbs energy for the reaction is $-212.27 \text{ kJ mol}^{-1}$.



The standard electrode potential for the Daniell cell is:

1. 1.1 V
2. 2.2 V
3. 0.002 V
4. 0.001 V

Options 1. 1

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 29472616720

Option 1 ID : 29472665093

Option 2 ID : 29472665094

Option 3 ID : 29472665095

Option 4 ID : 29472665096

Status : Answered

Chosen Option : 1

Q.37

Choose the **correct** statements

(A) For a gaseous reaction, if the concentration of gas is expressed in terms of their partial pressure 'atm' and time in 'minutes' then unit of rate are $\text{atm}^{-1} \text{ min}$.

(B) The sum of power of the concentration of the reactants in the rate law expression is called order of that reaction.

(C) The thermal decomposition of HI on gold surface is an example of second order reaction.

(D) The overall rate of the reaction is controlled by the slowest step in a reaction called the rate determining step.

Choose the **correct** answer from the options given below:

1. (A) and (B) only
2. (B) and (C) only
3. (C) and (D) only
4. (B) and (D) only

Options 1. 1

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 29472616715

Option 1 ID : 29472665073

Option 2 ID : 29472665074

Option 3 ID : 29472665075

Option 4 ID : 29472665076

Status : Answered

Chosen Option : 4

Q.38

Match **Reaction** with **Reagent Required**

List-I	List-II
Reaction	Reagent Required
(A) Glucose to n-Hexane	(I) NH_2OH
(B) Glucose to Oxime	(II) HNO_3
(C) Glucose to Gluconic Acid	(III) HI, Δ
(D) Glucose to Saccharic Acid	(IV) $\text{Br}_2, \text{H}_2\text{O}$

Choose the **correct** answer from the options given below:

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

Options 1. 1

2. 2
3. 3
4. 4

Question Type : **MCQ**

Question ID : **29472616733**

Option 1 ID : **29472665145**

Option 2 ID : **29472665146**

Option 3 ID : **29472665147**

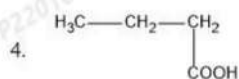
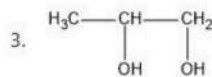
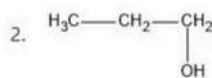
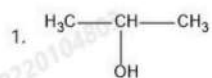
Option 4 ID : **29472665148**

Status : **Answered**

Chosen Option : **1**

Q.39

What would be the major product when propene reacts with water in presence of acid catalyst?



Options 1. 1

2. 2

3. 3

4. 4

Question Type : MCQ

Question ID : 29472616744

Option 1 ID : 29472665189

Option 2 ID : 29472665190

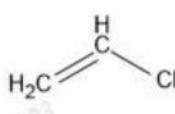
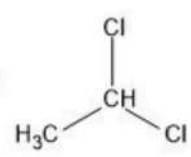
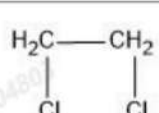
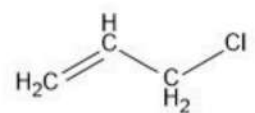
Option 3 ID : 29472665191

Option 4 ID : 29472665192

Status : Answered

Chosen Option : 1

Match **Structure** with their **Common Name**

List I	List-II
Structure	Common Name
(A) 	(I) Allyl chloride
(B) 	(II) Ethylene dichloride
(C) 	(III) Vinyl chloride
(D) 	(IV) Ethylidene chloride

Choose the **correct** answer from the options given below:

- (A) - (I), (B) - (IV), (C) - (II), (D) - (III)
- (A) - (I), (B) - (II), (C) - (IV), (D) - (III)
- (A) - (III), (B) - (IV), (C) - (II), (D) - (I)
- (A) - (III), (B) - (II), (C) - (IV), (D) - (I)

Options 1. 1

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 29472616736

Option 1 ID : 29472665157

Option 2 ID : 29472665158

Option 3 ID : 29472665159

Option 4 ID : 29472665160

Status : Answered

Chosen Option : 3

Comprehension:

Concept of Solution

There are several ways by which concentration of solution is quantitatively described: molality, molarity, mole fraction, ppm, mass % etc. Liquid-liquid solutions can be classified as ideal and non-ideal solution on the basis of Raoult's law. Suppose the molecules of two components are represented by A and B respectively. In pure components, the intermolecular attractive interaction will be of types A-A and B-B, whereas in the binary solution, A-B type of interactions will also be present. If intermolecular attractive forces between the A-A and B-B are nearly equal to those between A-B, ideal solution is formed.

The properties of solution which depend on the number of solute particles irrespective of their nature relative to the total number of particles present in the solution are called colligative properties.

SubQuestion No : 41

Q.41

What would be the molality of 1.5 g of ethanoic acid (CH_3COOH) in 75 g of benzene?

1. 0.55 mol kg^{-1}
2. 0.33 mol kg^{-1}
3. 0.44 mol kg^{-1}
4. 0.22 mol kg^{-1}

Options 1. 1

2. 2
3. 3
4. 4

Question Type : **MCQ**

Question ID : **29472616754**

Option 1 ID : **29472665225**

Option 2 ID : **29472665226**

Option 3 ID : **29472665227**

Option 4 ID : **29472665228**

Status : **Answered**

Chosen Option : **2**

Comprehension:

Concept of Solution

There are several ways by which concentration of solution is quantitatively described: molality, molarity, mole fraction, ppm, mass % etc. Liquid-liquid solutions can be classified as ideal and non-ideal solution on the basis of Raoult's law. Suppose the molecules of two components are represented by A and B respectively. In pure components, the intermolecular attractive interaction will be of types A-A and B-B, whereas in the binary solution, A-B type of interactions will also be present. If intermolecular attractive forces between the A-A and B-B are nearly equal to those between A-B, ideal solution is formed.

The properties of solution which depend on the number of solute particles irrespective of their nature relative to the total number of particles present in the solution are called colligative properties.

SubQuestion No : 42

Q.42

Which one of the following is **not correct** for an ideal solution?

1. It must obey Raoult's law.
2. $\Delta_{\text{mix}} H = 0$
3. $\Delta_{\text{mix}} V = 0$
4. $\Delta_{\text{mix}} H \neq 0$, and $\Delta_{\text{mix}} V = 0$

Options 1. 1

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 29472616756

Option 1 ID : 29472665233

Option 2 ID : 29472665234

Option 3 ID : 29472665235

Option 4 ID : 29472665236

Status : Answered

Chosen Option : 4

Comprehension:

Concept of Solution

There are several ways by which concentration of solution is quantitatively described: molality, molarity, mole fraction, ppm, mass % etc. Liquid-liquid solutions can be classified as ideal and non-ideal solution on the basis of Raoult's law. Suppose the molecules of two components are represented by A and B respectively. In pure components, the intermolecular attractive interaction will be of types A-A and B-B, whereas in the binary solution, A-B type of interactions will also be present. If intermolecular attractive forces between the A-A and B-B are nearly equal to those between A-B, ideal solution is formed.

The properties of solution which depend on the number of solute particles irrespective of their nature relative to the total number of particles present in the solution are called colligative properties.

SubQuestion No : 43

Q.43

The vapour pressure of pure benzene at 25°C is 0.950 bar. When a 0.5 g non-volatile, non-electrolyte solute is added to 39.0 g of benzene (molar mass 78 g mol⁻¹), then the vapour pressure of solution becomes 0.945 bar. What is the molar mass of the solute?

1. 170 g mol⁻¹
2. 190 g mol⁻¹
3. 210 g mol⁻¹
4. 180 g mol⁻¹

Options 1. 1

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 29472616757

Option 1 ID : 29472665237

Option 2 ID : 29472665238

Option 3 ID : 29472665239

Option 4 ID : 29472665240

Status : Answered

Chosen Option : 2

Comprehension:

Concept of Solution

There are several ways by which concentration of solution is quantitatively described: molality, molarity, mole fraction, ppm, mass % etc. Liquid-liquid solutions can be classified as ideal and non-ideal solution on the basis of Raoult's law. Suppose the molecules of two components are represented by A and B respectively. In pure components, the intermolecular attractive interaction will be of types A-A and B-B, whereas in the binary solution, A-B type of interactions will also be present. If intermolecular attractive forces between the A-A and B-B are nearly equal to those between A-B, ideal solution is formed.

The properties of solution which depend on the number of solute particles irrespective of their nature relative to the total number of particles present in the solution are called colligative properties.

SubQuestion No : 44

Q.44

The solution of acetone in ethanol:

1. shows positive deviation from Raoult's law.
2. shows negative deviation from Raoult's law.
3. obeys Raoult's law.
4. shows both negative and positive deviation from Raoult's law.

Options 1. 1

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 29472616755

Option 1 ID : 29472665229

Option 2 ID : 29472665230

Option 3 ID : 29472665231

Option 4 ID : 29472665232

Status : Answered

Chosen Option : 1

Comprehension:

Concept of Solution

There are several ways by which concentration of solution is quantitatively described: molality, molarity, mole fraction, ppm, mass % etc. Liquid-liquid solutions can be classified as ideal and non-ideal solution on the basis of Raoult's law. Suppose the molecules of two components are represented by A and B respectively. In pure components, the intermolecular attractive interaction will be of types A-A and B-B, whereas in the binary solution, A-B type of interactions will also be present. If intermolecular attractive forces between the A-A and B-B are nearly equal to those between A-B, ideal solution is formed.

The properties of solution which depend on the number of solute particles irrespective of their nature relative to the total number of particles present in the solution are called colligative properties.

SubQuestion No : 45

Q.45

Which of the following concentration term is temperature dependent?

1. Molality
2. Mole fraction
3. Molarity
4. ppm

Options 1. 1

2. 2
3. 3
4. 4

Question Type : **MCQ**

Question ID : **29472616753**

Option 1 ID : **29472665221**

Option 2 ID : **29472665222**

Option 3 ID : **29472665223**

Option 4 ID : **29472665224**

Status : **Answered**

Chosen Option : **3**

Comprehension:

Amines

Amines are important class of organic compounds which are basic in nature. They are generally derived by replacing one or more hydrogen atoms of ammonia molecule by alkyl / aryl group(s). In nature, they are generally found in proteins, vitamins, alkaloids and hormones. Two biologically active compounds namely adrenaline and ephedrine contain secondary amino group and are used to increase blood pressure.

Like ammonia, nitrogen atom of amines is trivalent and carries an unshared pair of electrons. Nitrogen orbitals in amines are therefore, sp^3 hybridized and the geometry of amine is pyramidal. Due to the presence of unshared pair of electrons, the angle C-N-E (where E is C or H) is less than 109.5° .

Inductive effects, solvation effects, steric effects etc. affect the basic strength of amines. Amines are classified as primary (1°), secondary (2°), and tertiary (3°) depending upon the number of hydrogen atoms replaced by alkyl or aryl groups in ammonia molecule. Amines can be prepared from various compounds like reduction of nitro, nitriles, amides etc. compounds. Amines are engaged in intermolecular hydrogen bonding. Aliphatic and aromatic primary amines show positive carbylamine reaction. A colourless crystalline solid benzene diazonium chloride can be obtained from aniline by reacting with sodium nitrite and hydrochloric acid at 273-278 K.

SubQuestion No : 46

Q.46

Select the correct order of boiling points of isomeric amines

1. $n\text{-C}_4\text{H}_9\text{NH}_2 > (\text{C}_2\text{H}_5)_2\text{NH} > \text{C}_2\text{H}_5\text{N}(\text{CH}_3)_2$
2. $n\text{-C}_4\text{H}_9\text{NH}_2 < (\text{C}_2\text{H}_5)_2\text{NH} < \text{C}_2\text{H}_5\text{N}(\text{CH}_3)_2$
3. $n\text{-C}_4\text{H}_9\text{NH}_2 = (\text{C}_2\text{H}_5)_2\text{NH} > \text{C}_2\text{H}_5\text{N}(\text{CH}_3)_2$
4. $n\text{-C}_4\text{H}_9\text{NH}_2 > (\text{C}_2\text{H}_5)_2\text{NH} = \text{C}_2\text{H}_5\text{N}(\text{CH}_3)_2$

Options 1. 1

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 29472616762

Option 1 ID : 29472665253

Option 2 ID : 29472665254

Option 3 ID : 29472665255

Option 4 ID : 29472665256

Status : Answered

Chosen Option : 1

Comprehension:

Amines

Amines are important class of organic compounds which are basic in nature. They are generally derived by replacing one or more hydrogen atoms of ammonia molecule by alkyl / aryl group(s). In nature, they are generally found in proteins, vitamins, alkaloids and hormones. Two biologically active compounds namely adrenaline and ephedrine contain secondary amino group and are used to increase blood pressure.

Like ammonia, nitrogen atom of amines is trivalent and carries an unshared pair of electrons. Nitrogen orbitals in amines are therefore, sp^3 hybridized and the geometry of amine is pyramidal. Due to the presence of unshared pair of electrons, the angle C-N-E (where E is C or H) is less than 109.5° .

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SubQuestion No : 47

Q.47

Identify the tertiary amine (3°) from the following compounds.

1. Ethylenediamine
2. *N,N*-Dimethylaniline
3. *p*-toluidine
4. 2,4,6-tribromoaniline

Options 1. 1

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 29472616759

Option 1 ID : 29472665241

Option 2 ID : 29472665242

Option 3 ID : 29472665243

Option 4 ID : 29472665244

Status : Answered

Chosen Option : 2

Comprehension:

Amines

Amines are important class of organic compounds which are basic in nature. They are generally derived by replacing one or more hydrogen atoms of ammonia molecule by alkyl / aryl group(s). In nature, they are generally found in proteins, vitamins, alkaloids and hormones. Two biologically active compounds namely adrenaline and ephedrine contain secondary amino group and are used to increase blood pressure.

Like ammonia, nitrogen atom of amines is trivalent and carries an unshared pair of electrons. Nitrogen orbitals in amines are therefore, sp^3 hybridized and the geometry of amine is pyramidal. Due to the presence of unshared pair of electrons, the angle C-N-E (where E is C or H) is less than 109.5° .

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SubQuestion No : 48

Q.48

Identify the correct decreasing order of basic strength of amines in aqueous solution.

1. $(C_2H_5)_3N$, $(C_2H_5)_2NH$, $C_2H_5NH_2$, NH_3
2. $C_2H_5NH_2$, $(C_2H_5)_3N$, $(C_2H_5)_2NH$, NH_3
3. NH_3 , $C_2H_5NH_2$, $(C_2H_5)_2NH$, $(C_2H_5)_3N$
4. $(C_2H_5)_2NH$, $(C_2H_5)_3N$, $C_2H_5NH_2$, NH_3

Options 1. 1

2. 2

3. 3

4. 4

Question Type : MCQ

Question ID : 29472616763

Option 1 ID : 29472665257

Option 2 ID : 29472665258

Option 3 ID : 29472665259

Option 4 ID : 29472665260

Status : Answered

Chosen Option : 3

Comprehension:

Amines

Amines are important class of organic compounds which are basic in nature. They are generally derived by replacing one or more hydrogen atoms of ammonia molecule by alkyl / aryl group(s). In nature, they are generally found in proteins, vitamins, alkaloids and hormones. Two biologically active compounds namely adrenaline and ephedrine contain secondary amino group and are used to increase blood pressure.

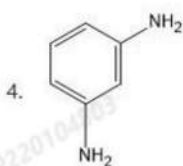
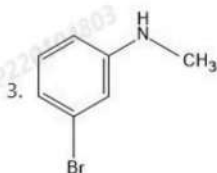
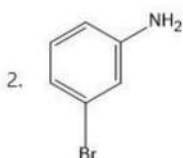
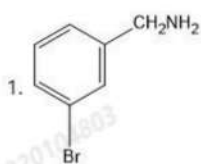
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SubQuestion No : 49

Q.49

The final structure of amine produced by Hoffmann degradation of *m*-bromobenzamide is



Options 1. 1

2. 2

3. 3

4. 4

Question Type : MCQ

Question ID : 29472616761

Option 1 ID : 29472665249

Option 2 ID : 29472665250

Option 3 ID : 29472665251

Option 4 ID : 29472665252

Status : Answered

Chosen Option : 1

Comprehension:

Amines

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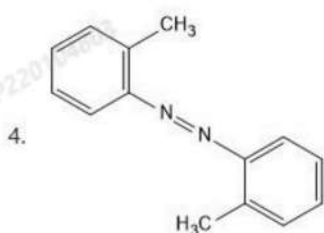
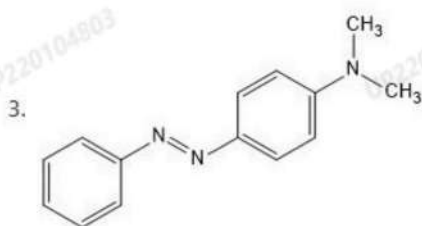
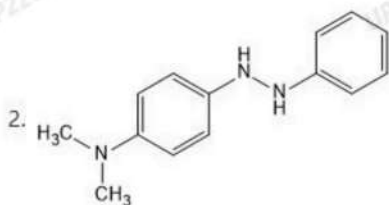
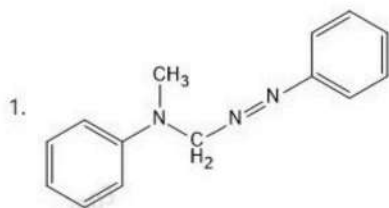
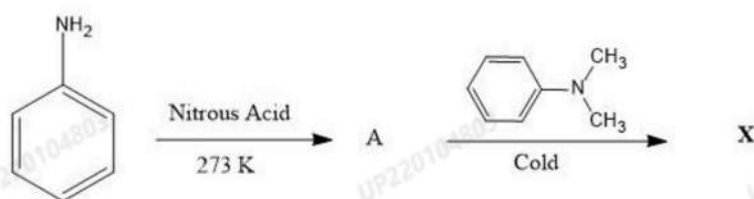
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SubQuestion No : 50

Q.50

What would be the structure of final product X in the following chemical reaction?



Options 1. 1

2. 2

3.3
4.4

Question Type : **MCQ**
Question ID : **29472616760**
Option 1 ID : **29472665245**
Option 2 ID : **29472665246**
Option 3 ID : **29472665247**
Option 4 ID : **29472665248**
Status : **Answered**
Chosen Option : **2**

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