

National Testing Agency

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Online Refresher Course In Chemistry For Higher Education

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Online Refresher Course In Chemistry For Higher Education-1

Section Id :	603489189
Section Number :	1
Section type :	Online

Mandatory or Optional :	Mandatory
Number of Questions :	100
Number of Questions to be attempted :	100
Section Marks :	100
Enable Mark as Answered Mark for Review and Clear Response :	Yes
Sub-Section Number :	1
Sub-Section Id :	603489349
Question Shuffling Allowed :	Yes

Question Number : 1 Question Id : 6034899844 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

One of the recipients of the Nobel Prize 2020 in Chemistry “for the development of a method for genome editing” was

1. Frances H. Arnold
2. Emmanuelle Charpentier
3. George P. Smith
4. Sir Gregory P. Winter

Options :

60348937315. 1

60348937316. 2

60348937317. 3

60348937318. 4

Question Number : 2 Question Id : 6034899845 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Given below are two statements, one is labelled as **Assertion A** and the other is labelled as **Reason R**

Assertion A: Hydrogen gas filled balloons exploded into flames

Reason R: Hydrogen is a Noble gas

In light of the above statements, choose the **most appropriate** answer from the options given below

1. Assertion is correct and Reason is correct reasoning.
2. Assertion is correct, but the Reason is incorrect.
3. Assertion is incorrect and Reason is a correct statement.
4. Both Assertion and Reason are incorrect.

Options :

60348937319. 1

60348937320. 2

60348937321. 3

60348937322. 4

Question Number : 3 Question Id : 6034899846 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

For the year 2020, the focal theme of Indian Science Congress was

1. Future India: Science & Technology in Agriculture
2. Digital and Scientific India
3. Growth & Development of Science for Rural India
4. Science & Technology: Rural Development

Options :

60348937323. 1

60348937324. 2

60348937325. 3

60348937326. 4

Question Number : 4 Question Id : 6034899847 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

The resolution to redefine four base units was implemented worldwide on

1. November 16, 2018
2. May 20, 2019
3. January 18, 2019
4. April 04, 2019

Options :

- 60348937327. 1
- 60348937328. 2
- 60348937329. 3
- 60348937330. 4

Question Number : 5 Question Id : 6034899848 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

“Unless some neutral particles added to the nucleus, repulsion of positively charged protons would cause the nuclei to fly apart”. This was proved experimentally by

1. Chadwick
2. Rutherford
3. Neil Bohr
4. JJ Thomson

Options :

- 60348937331. 1
- 60348937332. 2
- 60348937333. 3
- 60348937334. 4

Question Number : 6 Question Id : 6034899849 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Which of the following statements is/are correct in context of Rutherford's Model of an atom?

- A. Most of the atom is an empty space.
- B. Mass of atom is evenly distributed
- C. Electrons do not move around the nucleus.
- D. Angular momentum of electron is quantized.

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

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

Options :

60348937335. 1

60348937336. 2

60348937337. 3

60348937338. 4

Question Number : 7 Question Id : 6034899850 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Name the emission of radiation due to the transition from the triplet excited state T_1 to the singlet ground state S_0 :

- 1. Fluorescence
- 2. Phosphorescence
- 3. Luminescence
- 4. Delayed fluorescence

Options :

60348937339. 1

60348937340. 2

60348937341. 3

60348937342. 4

Question Number : 8 Question Id : 6034899851 Question Type : MCQ Option Shuffling : No Is

Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

The following image is a representation of



1. Oxidizing chemical
2. Explosive chemical
3. Lachrymatory chemical
4. Toxic chemical

Options :

60348937343. 1

60348937344. 2

60348937345. 3

60348937346. 4

Question Number : 9 Question Id : 6034899852 Question Type : MCQ Option Shuffling : No Is

Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

The following image is a representation of



1. Biohazard chemical
2. Narcotic chemical
3. Radioactive chemical
4. Toxic chemical

Options :

60348937347. 1

60348937348. 2

60348937349. 3

60348937350. 4

Question Number : 10 Question Id : 6034899853 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

UN Globally Harmonized System (GHS) of classification and labelling of chemicals documents also known as

1. Red Data Book
2. Red Data Sheet
3. Chemical Sheet
4. Purple Book

Options :

60348937351. 1

60348937352. 2

60348937353. 3

60348937354. 4

Question Number : 11 Question Id : 6034899854 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Which of the following statements are true.

- A. Matrix Mechanics was proposed by Werner Karl Heisenberg
- B. Quantum Mechanics explains the structure, bonding and reactivity in chemical substances.
- C. A black body is the one which can absorb but not emit radiations of all frequencies
- D. Compton effect indicated particle character of radiation

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

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

Options :

60348937355. 1

60348937356. 2

60348937357. 3

60348937358. 4

Question Number : 12 Question Id : 6034899855 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

For an electron travelling at 2% of the speed of light, the de-Broglie wavelength comes out to be

1. 3×10^{10} m
2. 12×10^{14} m
3. 200 cm
4. 121.1 pm

Options :

60348937359. 1

60348937360. 2

60348937361. 3

60348937362. 4

Question Number : 13 Question Id : 6034899856 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

What is the unit of Hamiltonian?

1. Kg
2. K cal mol^{-1}
3. No units
4. Joules

Options :

60348937363. 1

60348937364. 2

60348937365. 3

60348937366. 4

Question Number : 14 Question Id : 6034899857 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Arrange in the decreasing ease to undergo substitution by S_N1 mechanism?

A. $\text{PhCH}_2\text{CH}_2\text{CH}_2\text{Br}$

B. $\text{Ph}_2\text{C}(\text{Me})\text{Br}$

C. $\text{Ph}(\text{Me}_2)\text{C}(\text{Br})$

D. $\text{PhCH}_2\text{CH}(\text{Me})\text{Br}$

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

1. A, D, C, B

2. B, C, D, A

3. C, B, D, A

4. A, D, B, C

Options :

60348937367. 1

60348937368. 2

60348937369. 3

60348937370. 4

Question Number : 15 Question Id : 6034899858 Question Type : MCQ Option Shuffling : No Is

Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

The central carbon of the pentavalent (trigonal bipyramid) transition state formed in the S_N2 reaction mechanism has the following hybridization

1. sp

2. sp^2

3. sp^3

4. sp^3d

Options :

60348937371. 1

60348937372. 2

60348937373. 3

60348937374. 4

Question Number : 16 Question Id : 6034899859 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

One mono-substituted chloroalkane on chlorination will be produced by which of the following hydrocarbons?

- A. Cyclopropane
- B. Isobutane
- C. 2,2,3,3- tetramethyl-butane
- D. 2,3-dimethyl-butane

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

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

Options :

- 60348937375. 1
- 60348937376. 2
- 60348937377. 3
- 60348937378. 4

Question Number : 17 Question Id : 6034899860 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Chain mechanism is represented by which of the following nucleophilic substitution reaction mechanisms?

1. S_N1
2. S_N2
3. $S_{RN}1$
4. S_{Ni}

Options :

60348937379. 1

60348937380. 2

60348937381. 3

60348937382. 4

Question Number : 18 Question Id : 6034899861 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Which of the following statements are true.

A. An acidic compound spill on hand can be treated with an application of saturated sodium bicarbonate solution

B. An alkaline compound spill on hand can be treated with application of 1% Acetic Acid solution

C. Universal antidote for any poison comprises of 50% active charcoal, 25% tannic acid and 25% magnesium oxide dissolved in 1/4th cup of water.

D. In case of bromine spill on human body, wash with 1% Boric acid solution

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

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

Options :

60348937383. 1

60348937384. 2

60348937385. 3

60348937386. 4

Question Number : 19 Question Id : 6034899862 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

If someone has accidentally swallowed an alkaline poison, he/she can be provided first-aid by giving

1. plenty of water followed by milk of magnesia or antacid to drink
2. plenty of water followed by lemon juice to drink
3. plenty of water followed by milk to drink
4. plenty of water followed by common salt solution to drink

Options :

60348937387. 1

60348937388. 2

60348937389. 3

60348937390. 4

Question Number : 20 Question Id : 6034899863 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Benzene comprises of _____ number of terms in Hamiltonian

1. 1458
2. 1485
3. 120
4. 12

Options :

60348937391. 1

60348937392. 2

60348937393. 3

60348937394. 4

Question Number : 21 Question Id : 6034899864 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

The Schrödinger equation for a two particle system comprising of a nucleus of charge +e and an electron is of the form

1. $\left[-\frac{\hbar^2}{8\pi^2 m_e} \nabla_e^2 - \frac{\hbar^2}{8\pi^2 m_n} \nabla_n^2 - \frac{e^2}{4\pi \epsilon_0 r} \right] \psi = E \psi$
2. $\left[-\frac{\hbar^2}{8\pi^2 m_e} \nabla_e^2 - \frac{e^2}{4\pi \epsilon_0 r} \right] \psi = E \psi$
3. $\left[-\frac{\hbar^2}{8\pi^2 m_e} \nabla_e^2 \right] \psi = E \psi$
4. $\left[-\frac{e^2}{4\pi \epsilon_0 r} \right] \psi = E \psi$

Options :

60348937395. 1

60348937396. 2

60348937397. 3

60348937398. 4

Question Number : 22 Question Id : 6034899865 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

For operator $\hat{O} = \frac{d^2}{dx^2}$ and wavefunction $\psi = e^{2x}$, the eigen value is obtained as,

1. 4
2. 2
3. 1
4. 16

Options :

60348937399. 1

60348937400. 2

60348937401. 3

60348937402. 4

Question Number : 23 Question Id : 6034899866 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Concentrated nitric acid is added to oxidize Fe^{2+} to Fe^{3+} . Why is this done after Group II and not during preparation of original solution?

1. Nitrates of some metals may be precipitated.
2. A yellow suspension will be obtained on passing H_2S
3. Group I cations will be missed
4. A black precipitate will be obtained on passing H_2S

Options :

60348937403. 1

60348937404. 2

60348937405. 3

60348937406. 4

Question Number : 24 Question Id : 6034899867 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

A white mixture produced a black precipitate on passing H_2S in ammoniacal medium in Group IV? What could be this due to?

1. Cu^{2+} was missed in Group II
2. Cd^{2+} was missed in Group II
3. Pb^{2+} was missed in Groups I and II
4. The mixture contained Ni^{2+}

Options :

60348937407. 1

60348937408. 2

60348937409. 3

60348937410. 4

Question Number : 25 Question Id : 6034899868 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

During grinding to prepare a mixture of a blue salt (A) and a white salt (B), brown colour got formed. Identify the possible salts A and B respectively

1. A- Nickel sulphate; B- potassium bromide
2. A- Zinc sulphate ; B- potassium iodide
3. A- Copper sulphate; B- potassium nitrate
4. A- Copper sulphate ; B- potassium iodide

Options :

60348937411. 1

60348937412. 2

60348937413. 3

60348937414. 4

Question Number : 26 Question Id : 6034899869 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

When barium chloride solution was added to a mixture, a white precipitate was obtained. The mixture does not contain sulphate or sulphite. In this context, which of the following may be correct reason?

- A. Sulphide was present
- B. Nitrate was present
- C. Sodium carbonate extract was not acidified

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

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

Options :

60348937415. 1

60348937416. 2

60348937417. 3

60348937418. 4

Question Number : 27 Question Id : 6034899870 Question Type : MCQ Option Shuffling : No Is

Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Potassium hexacyanoferrate(II) can be used to confirm which of the following cations?

- A. Fe^{2+}
- B. Fe^{3+}
- C. Cu^{2+}
- D. Zn^{2+}

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

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

Options :

60348937419. 1

60348937420. 2

60348937421. 3

60348937422. 4

Question Number : 28 Question Id : 6034899871 Question Type : MCQ Option Shuffling : No Is

Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Which software has been described in the module on Drug Designing for deducting the 3D structure from protein sequence?

- 1. Bhageerath
- 2. GAMESS
- 3. Gaussian
- 4. UniProt

Options :

60348937423. 1

60348937424. 2

60348937425. 3

60348937426. 4

Question Number : 29 Question Id : 6034899872 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

Which of the following are suitable solvents for oils and fats?

- A. CHCl_3
- B. n-Hexane
- C. Benzene
- D. Water

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

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

Options :

- 60348937427. 1
- 60348937428. 2
- 60348937429. 3
- 60348937430. 4

Question Number : 30 Question Id : 6034899873 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

Saponification is hydrolysis of triglyceride esters

- 1. By alkalis
- 2. In digestive tracts of human beings
- 3. By acids
- 4. By salts

Options :

60348937431. 1

60348937432. 2

60348937433. 3

60348937434. 4

Question Number : 31 Question Id : 6034899874 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Given below are two statements, one is labelled as **Assertion A** and the other is labelled as **Reason R**

Assertion A: Repeated and overheating of oil is not healthy

Reason R: Over boiling of cis fats converts them into fats

In light of the above statements, choose the **most appropriate** answer from the options given below

1. Assertion is correct and Reason is correct reasoning.
2. Assertion is correct, but Reason is incorrect.
3. Assertion is incorrect and Reason is a correct statement.
4. Both Assertion and Reason are incorrect.

Options :

60348937435. 1

60348937436. 2

60348937437. 3

60348937438. 4

Question Number : 32 Question Id : 6034899875 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

The High Density Lipoproteins are formed from:

1. Saturated fatty acid
2. Unsaturated fatty acid
3. Both saturated and unsaturated fatty acid
4. Bad fats

Options :

60348937439. 1

60348937440. 2

60348937441. 3

60348937442. 4

Question Number : 33 Question Id : 6034899876 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

The first element discovered scientifically was

1. Gold
2. Tin
3. Phosphorus
4. Copper

Options :

60348937443. 1

60348937444. 2

60348937445. 3

60348937446. 4

Question Number : 34 Question Id : 6034899877 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Who devised a procedure of grouping elements into a group of three where the atomic mass of the middle element is the arithmetic mean of other two elements?

1. Mendeleev
2. Döbereiner
3. Newland
4. Meyer

Options :

60348937447. 1

60348937448. 2

60348937449. 3

60348937450. 4

Question Number : 35 Question Id : 6034899878 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Which of the following are correct?

- A. Henning Brand discovered phosphorus
- B. Moseley is referred to as the Father of Periodic Table
- C. Henry Mosley classified the elements of the periodic table according to their atomic numbers instead of atomic masses.

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

1. A only
2. C only
3. A and C only
4. B and C only

Options :

60348937451. 1

60348937452. 2

60348937453. 3

60348937454. 4

Question Number : 36 Question Id : 6034899879 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

Which of the following are correct? A. Tetrahedral geometry is favored by negatively charged and weak field ligands.

B. Electrostatic attraction or Covalent bonding between metal and ligand favor CN 6 over 4

C. In normal spinels, the tetrahedral spaces are smaller than the octahedral spaces

D. Normal spinel structures are usually octahedral close-packed oxides

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

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

Options :

60348937455. 1

60348937456. 2

60348937457. 3

60348937458. 4

Question Number : 37 Question Id : 6034899880 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

CFSE for d^3 octahedral configuration is found to be

1. $-1.5 \Delta_0$
2. $-3 \Delta_0$
3. $-2 \Delta_0$
4. $-1.2 \Delta_0$

Options :

60348937459. 1

60348937460. 2

60348937461. 3

60348937462. 4

Question Number : 38 Question Id : 6034899881 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Which of the following is a correct representation of SI Unit for a mass of 24 grams?

1. 24 gms
2. 24 gm
3. 24 gs
4. 24 g

Options :

60348937463. 1

60348937464. 2

60348937465. 3

60348937466. 4

Question Number : 39 Question Id : 6034899882 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

SI unit for mass "kilogram" has been defined in terms of which physical constant?

1. Elementary charge
2. Avogadro's constant
3. Planck's Constant
4. Boltzmann constant

Options :

60348937467. 1

60348937468. 2

60348937469. 3

60348937470. 4

Question Number : 40 Question Id : 6034899883 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Which of the following are CORRECT about usage of SI unit & prefixes?

- A. Multiple prefixes cannot be used simultaneously
- B. No Space is left between the prefix and the unit symbol
- C. Upto 3 Prefixes can be used with the units
- D. A space must be left between magnitude and unit.

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

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

Options :

60348937471. 1

60348937472. 2

60348937473. 3

60348937474. 4

Question Number : 41 Question Id : 6034899884 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

The difference in wavelength of absorption and fluorescence is known as-

- 1. Low extinction coefficients
- 2. Vertical transitions
- 3. High ISC rates
- 4. Stokes Shift

Options :

60348937475. 1

60348937476. 2

60348937477. 3

60348937478. 4

Question Number : 42 Question Id : 6034899885 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

In photochemistry, benzophenone is commonly used as a

A) bioluminescent substance.

B) photosensitizer.

C) photoluminescent substance.

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

1. A only

2. A and B only

3. B and C only

4. A, B and C only

Options :

60348937479. 1

60348937480. 2

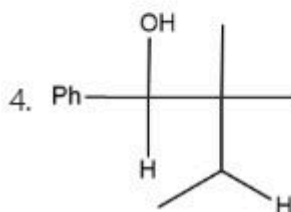
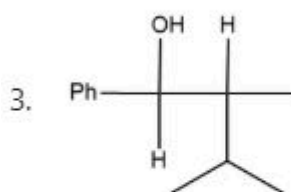
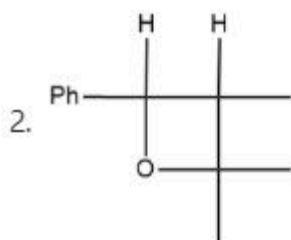
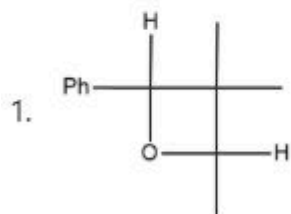
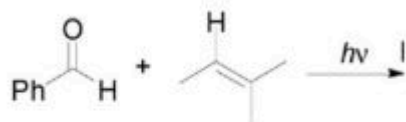
60348937481. 3

60348937482. 4

Question Number : 43 Question Id : 6034899886 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Predict the major product in the following reaction:



Options :

60348937483. 1

60348937484. 2

60348937485. 3

60348937486. 4

Question Number : 44 Question Id : 6034899887 Question Type : MCQ Option Shuffling : No Is

Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

In a photochemical reaction the fission of carbonyl carbon and α -carbon bond takes place.

Name this reaction



1. Norrish type 1
2. Norrish type 2
3. Paterno Buchi Reaction
4. Isomerization

Options :

60348937487. 1

60348937488. 2

60348937489. 3

60348937490. 4

Question Number : 45 Question Id : 6034899888 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Which of the following are INCORRECT?

- A. Stokes gave Second Law of Photochemistry or Law of Photochemical Equivalence
- B. The Diels-Alder reaction is photochemically forbidden but thermochemically allowed
- C. First step in photochemistry is excitation (photoexcitation)
- D. Phosphorescence is faster process than fluorescence.

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

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

Options :

60348937491. 1

60348937492. 2

60348937493. 3

60348937494. 4

Question Number : 46 Question Id : 6034899889 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Who received the Nobel Prize for the theory of Quantum Mechanics?

1. Thomson
2. Schrödinger
3. Bohr
4. Rutherford

Options :

60348937495. 1

60348937496. 2

60348937497. 3

60348937498. 4

Question Number : 47 Question Id : 6034899890 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Orbital Angular Momentum (OAM) of an electron quantum mechanically is expressed as

1. $\sqrt{(l+1)}h/2\pi$
2. $\sqrt{l(l+2)}h/2\pi$
3. $\sqrt{l(l+1)}h/2\pi$
4. $\sqrt{l(l+1)}h/2\pi$

Options :

60348937499. 1

60348937500. 2

60348937501. 3

60348937502. 4

Question Number : 48 Question Id : 6034899891 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

$2p_x$ Orbital corresponds to what values of n , l and m ?

1. $n = 2; l = 1; m = 0$
2. $n = 2; l = 1; m = +1$
3. $n = 2; l = 1; m = -1$
4. $n = 2; l = 1; m = +1 \text{ \& } -1$ (*Linear Combination*)

Options :

60348937503. 1

60348937504. 2

60348937505. 3

60348937506. 4

Question Number : 49 Question Id : 6034899892 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Nuclear Magnetic Moment was discovered by

1. Stern-Gerlach Experiment
2. Molecular Beam Experiment
3. Pudding Model
4. Cathode Ray experiment

Options :

60348937507. 1

60348937508. 2

60348937509. 3

60348937510. 4

Question Number : 50 Question Id : 6034899893 Question Type : MCQ Option Shuffling : No Is

Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

In context of the module NMR spectroscopy, S/N is proportional to

1. $\sqrt{\text{Separation between energy levels}}$
2. $\sqrt{\text{Population difference}}$
3. $\sqrt{\text{Number of Sweeps Coadded}}$
4. $\sqrt{\text{mass of entity}}$

Options :

60348937511. 1

60348937512. 2

60348937513. 3

60348937514. 4

Question Number : 51 Question Id : 6034899894 Question Type : MCQ Option Shuffling : No Is

Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

NOSEY Stands for

1. *Nuclear Static Spectroscopy*
2. *Nuclear Spin Spectroscopy*
3. *Nuclear Overhauser Effect Spectroscopy*
4. *Nuclear Spectroscopy*

Options :

60348937515. 1

60348937516. 2

60348937517. 3

60348937518. 4

Question Number : 52 Question Id : 6034899895 Question Type : MCQ Option Shuffling : No Is

Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

The microcrystals in carbon fibres are composed of-

1. Tetrahedral rings
2. Square planar rings
3. Pentagonal rings
4. Hexagonal rings

Options :

60348937519. 1

60348937520. 2

60348937521. 3

60348937522. 4

Question Number : 53 Question Id : 6034899896 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Which statement concerning properties of carbon fibers is NOT correct?

1. High strength to weight ratio
2. Low density
3. Low tensile strength
4. Corrosion resistance

Options :

60348937523. 1

60348937524. 2

60348937525. 3

60348937526. 4

Question Number : 54 Question Id : 6034899897 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

The resulting product when carbon fibers are embedded in a base material is called

1. Alloy
2. Prosthetic
3. Composite
4. Yarn

Options :

60348937527. 1

60348937528. 2

60348937529. 3

60348937530. 4

Question Number : 55 Question Id : 6034899898 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

In pharmaceutical industry, API stands for:

1. Active pharmacological Ingredient
2. Active Pharmaceutical Ingredient
3. Active Pharmacology Input
4. Active Pharmaceutical Insertion

Options :

60348937531. 1

60348937532. 2

60348937533. 3

60348937534. 4

Question Number : 56 Question Id : 6034899899 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

In 1826, Merck marketed the first commercial natural product for therapeutic use was

1. Aspirin
2. Salicylic acid
3. Codeine
4. Morphine

Options :

60348937535. 1

60348937536. 2

60348937537. 3

60348937538. 4

Question Number : 57 Question Id : 6034899900 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

In pharmaceutical industry, what is the full form of CTA?

1. Clinical Trial Appeal
2. Clinical Testing Application
3. Clinical Trial Application
4. Clinical Testing Apprehension

Options :

60348937539. 1

60348937540. 2

60348937541. 3

60348937542. 4

Question Number : 58 Question Id : 6034899901 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

In pharmaceutical industry, Full form of NDA is:

1. Narcotic Drug Application
2. New Drug Application
3. New Drug Approval
4. New Drug Acceptance

Options :

60348937543. 1

60348937544. 2

60348937545. 3

60348937546. 4

Question Number : 59 Question Id : 6034899902 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Give below are two statements, one is labelled as **Assertion A** and the other is labelled as **Reason R**

Assertion A: Syllabus is prescriptive

Reason R: Curriculum is descriptive

In light of the above statements, choose the **correct** answer from the options given below

1. Assertion is correct and Reason is correct reasoning.
2. Assertion is correct, but Reason is incorrect.
3. Assertion is incorrect and Reason is a correct statement.
4. Both Assertion and Reason are incorrect.

Options :

60348937547. 1

60348937548. 2

60348937549. 3

60348937550. 4

Question Number : 60 Question Id : 6034899903 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Which of the following are CORRECT?

- A. Kothari Commission was established in 1959
- B. University Education Commission was established in 1948
- C. Latest National Education Policy has been released in 2021

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

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

Options :

60348937551. 1

60348937552. 2

60348937553. 3

60348937554. 4

Question Number : 61 Question Id : 6034899904 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

The difference between ethics and values is

- 1. Both are same
- 2. Values are self-regulatory but ethics are hierarchical in nature
- 3. Values are hierarchical in nature but ethics are self-regulatory
- 4. Both are hierarchical in nature

Options :

60348937555. 1

60348937556. 2

60348937557. 3

60348937558. 4

Question Number : 62 Question Id : 6034899905 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Which of the following is false?

1. Bragg Brentano geometry is used for focusing
2. All orientations are not possible with powder diffraction method
3. When X-rays hit a specimen, the interaction can result in various signals
4. Most monochromators are cut with one face parallel to a major set of crystal planes

Options :

60348937559. 1

60348937560. 2

60348937561. 3

60348937562. 4

Question Number : 63 Question Id : 6034899906 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Which of the following equations correctly represent Bragg's law?

1. $n\lambda = 2d \sin \theta$
2. $\lambda = 3d \sin \theta$
3. $n\lambda = d \sin \theta$
4. $n\lambda = 2 \sin \theta$

Options :

60348937563. 1

60348937564. 2

60348937565. 3

60348937566. 4

Question Number : 64 Question Id : 6034899907 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Which of the following is correct matching?

1. Monoatomic gases: short range order
2. Amorphous material: long range order
3. Liquid crystals: short range order
4. Crystalline material: Long range order

Options :

60348937567. 1

60348937568. 2

60348937569. 3

60348937570. 4

Question Number : 65 Question Id : 6034899908 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

In the equation $F_{hkl} = \sum_1^N f_n e^{2\pi i(hu_n + kv_n)}$, f_n represents

1. Scattering factor of a particular type of atom
2. Number of atoms
3. Co-ordinates of the atom in the lattice
4. Indices of diffraction plane

Options :

60348937571. 1

60348937572. 2

60348937573. 3

60348937574. 4

Question Number : 66 Question Id : 6034899909 Question Type : MCQ Option Shuffling : No Is

Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Body centered Bravais Lattice will not show which of the following reflections?

1. All reflections
2. $(h + k + l), \text{Even}$
3. $(h + k + l), \text{Odd}$
4. $h, k, l \text{ mixed}$

Options :

60348937575. 1

60348937576. 2

60348937577. 3

60348937578. 4

Question Number : 67 Question Id : 6034899910 Question Type : MCQ Option Shuffling : No Is

Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Which of the following is/are not electrophiles?

- A. Br^+
- B. H_3O^+
- C. NH_4^+
- D. Na^+
- E. NO_2^+

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

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

Options :

60348937579. 1

60348937580. 2

60348937581. 3

60348937582. 4

Question Number : 68 Question Id : 6034899911 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

A tertiary alcohol on treatment with conc. HCl will give

1. No reaction
2. Violent reaction
3. Immediate turbidity
4. Turbidity after 5 min

Options :

60348937583. 1

60348937584. 2

60348937585. 3

60348937586. 4

Question Number : 69 Question Id : 6034899912 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Which of the following radioactive isotope is used most widely in the clinical imaging work?

1. I-131
2. Tc-99
3. Ra-223
4. P-32

Options :

60348937587. 1

60348937588. 2

60348937589. 3

60348937590. 4

Question Number : 70 Question Id : 6034899913 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Which of the following is not true about equivalent hybrid orbitals?

1. All hybrid orbitals have same s and p character irrespective of the number of combining orbitals
2. All hybrid orbitals are identical in composition
3. All hybrid orbitals are identical in spatial orientation
4. All hybrid orbitals are identical in energy

Options :

60348937591. 1

60348937592. 2

60348937593. 3

60348937594. 4

Question Number : 71 Question Id : 6034899914 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Electronegativity of different orbitals decreases in the order

1. $s > sp > sp^2 > sp^3 > p$
2. $sp > sp^2 > sp^3 > s > p$
3. $s > p > sp > sp^2 > sp^3$
4. $s < sp < sp^2 < sp^3 < p$

Options :

60348937595. 1

60348937596. 2

60348937597. 3

60348937598. 4

Question Number : 72 Question Id : 6034899915 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

How many equatorial bonds are present in PCl_5 ?

1. 5
2. 2
3. 3
4. 1

Options :

60348937599. 1
60348937600. 2
60348937601. 3
60348937602. 4

Question Number : 73 Question Id : 6034899916 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

Which of the following is not true about hybridization?

1. Hybridization is a physical phenomenon
2. There can be infinite number of different hybrids (mixtures)
3. Hybrid orbitals are abstractions that describe reality fairly well
4. The hybrids can be defined by p to s ratio of the contributing orbitals

Options :

60348937603. 1
60348937604. 2
60348937605. 3
60348937606. 4

Question Number : 74 Question Id : 6034899917 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Choose the correct interpretation of a double bond using Lewis cube diagram:

1. Sharing of a face
2. Sharing of an edge
3. Sharing of two edges
4. A complex treatment gives the double bond

Options :

60348937607. 1

60348937608. 2

60348937609. 3

60348937610. 4

Question Number : 75 Question Id : 6034899918 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Which of the following is not true about Hamiltonian?

1. Hamiltonian is an energy operator
2. Hamiltonian is taken as sum of kinetic energy operator and potential energy operator
3. Different chemical system can have same Hamiltonian
4. Hamiltonian is defined for every system quantum mechanically

Options :

60348937611. 1

60348937612. 2

60348937613. 3

60348937614. 4

Question Number : 76 Question Id : 6034899919 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Which of the following is diatomic at room temperature?

1. Hydrogen
2. Neon
3. Phosphorus
4. Sulphur

Options :

60348937615. 1

60348937616. 2

60348937617. 3

60348937618. 4

Question Number : 77 Question Id : 6034899920 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

The energy for harmonic oscillator quantum mechanically can be expressed as

1. $E = \left(V + \frac{1}{2}\right) h\nu$
2. $E = \left(nV + \frac{1}{2}\right) h\nu$
3. $E = \left(V + \frac{1}{2}\right) nh\nu$
4. $E = \left(V + \frac{3}{2}\right) h\nu$

Options :

60348937619. 1

60348937620. 2

60348937621. 3

60348937622. 4

Question Number : 78 Question Id : 6034899921 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Computational chemistry is also known as

1. Synthetic Chemistry
2. In-situ Chemistry
3. Analytical chemistry
4. In-silico chemistry

Options :

60348937623. 1

60348937624. 2

60348937625. 3

60348937626. 4

Question Number : 79 Question Id : 6034899922 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Which of the following is an Open source software for chemistry.

1. Linux
2. ArgusLab
3. MS Office
4. ChemDraw

Options :

60348937627. 1

60348937628. 2

60348937629. 3

60348937630. 4

Question Number : 80 Question Id : 6034899923 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

The default setting in ArgusLab for the geometry while drawing molecules is

1. Linear
2. Unspecified
3. Trigonal planar
4. Tetrahedral

Options :

60348937631. 1

60348937632. 2

60348937633. 3

60348937634. 4

Question Number : 81 Question Id : 6034899924 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

The commercial production of vanadium is mainly as

1. ferrovanadium
2. Iron vanadium tetraoxide
3. Vanadium Oxide
4. Vanadium Nitride

Options :

60348937635. 1

60348937636. 2

60348937637. 3

60348937638. 4

Question Number : 82 Question Id : 6034899925 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

One of the following is not the outcome of preparing blue print of a question paper.

1. The questions are purposeful and well defined .
2. More than one question paper of almost the same level can be prepared.
3. Different examiners can frame the question paper of almost the same level.
4. No chances of any question which is out of syllabus.

Options :

60348937639. 1

60348937640. 2

60348937641. 3

60348937642. 4

Question Number : 83 Question Id : 6034899926 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Which of the following is ideally wrong while setting a question paper?

1. Distribution of Difficulty level weightage
2. Development of Blueprint
3. Validation of content
4. No consideration to scope and length of the answer

Options :

60348937643. 1

60348937644. 2

60348937645. 3

60348937646. 4

Question Number : 84 Question Id : 6034899927 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

For most of the elements of periodic table, the typical sensitivity of ICP-MS is

1. ppb-ppt
2. less than 1 %
3. Less than 5 %
4. 0.1% to few ppm

Options :

60348937647. 1

60348937648. 2

60348937649. 3

60348937650. 4

Question Number : 85 Question Id : 6034899928 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

A 100 eV electron interacting with an organic molecule can deposit energy equal to

1. 0-50 eV
2. 0-25 eV
3. 25-50 eV
4. 0-100 eV

Options :

60348937651. 1

60348937652. 2

60348937653. 3

60348937654. 4

Question Number : 86 Question Id : 6034899929 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

In Direct Analysis in Real Time (DART) MS- techniques, the ionization source is

1. Energetic Electrons
2. Photons
3. Metastable Helium atoms
4. Radioactive source

Options :

60348937655. 1

60348937656. 2

60348937657. 3

60348937658. 4

Question Number : 87 Question Id : 6034899930 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

The phenomena of scientific study at a very low temperature is known as

1. Ornithology
2. Selenography
3. Cryogenics
4. Petrology

Options :

60348937659. 1

60348937660. 2

60348937661. 3

60348937662. 4

Question Number : 88 Question Id : 6034899931 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Which is the lightest solid known?

1. Calcium carbonate
2. Aluminum metal
3. Aerogel
4. Soap Stone

Options :

60348937663. 1

60348937664. 2

60348937665. 3

60348937666. 4

Question Number : 89 Question Id : 6034899932 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Which colorless gas is dissolved in water to yield a solution which is used as a biological preservative?

1. Formaldehyde
2. Carbon monoxide
3. Carbon dioxide
4. Hydrogen gas

Options :

60348937667. 1

60348937668. 2

60348937669. 3

60348937670. 4

Question Number : 90 Question Id : 6034899933 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

What is the red colored ruby gemstone composed of chemically?

1. Chromium oxide
2. Aluminum oxide with Chromium
3. Aluminum oxide
4. Potassium permanganate

Options :

60348937671. 1

60348937672. 2

60348937673. 3

60348937674. 4

Question Number : 91 Question Id : 6034899934 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Which is the softest known chemical substance?

1. Limestone
2. Fuller's earth
3. Talc
4. Calcite

Options :

60348937675. 1

60348937676. 2

60348937677. 3

60348937678. 4

Question Number : 92 Question Id : 6034899935 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Purple benzene can be prepared by adding which of the following to a mixture of benzene and KMnO_4 ?

1. NaCl
2. Water
3. Tetrachlorobenzene
4. Tetraalkylammonium chloride

Options :

60348937679. 1

60348937680. 2

60348937681. 3

60348937682. 4

Question Number : 93 Question Id : 6034899936 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Which of the following radioactive isotope is used most widely in the clinical imaging work?

1. I-131
2. Tc-99
3. Ra-223
4. P-32

Options :

60348937683. 1

60348937684. 2

60348937685. 3

60348937686. 4

Question Number : 94 Question Id : 6034899937 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

For formation of whipped cream, heavy cream is subjected to injecting which of the following bacteriostatic gas under high pressure conditions?

1. Liquid Nitrogen
2. Nitric Oxide
3. Nitrous Oxide
4. Liquid CO₂

Options :

60348937687. 1

60348937688. 2

60348937689. 3

60348937690. 4

Question Number : 95 Question Id : 6034899938 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Gold can be made to appear of white colour by addition of which of the following in gold during the alloy formation?

1. Nickel
2. Copper
3. Zinc
4. Silver

Options :

60348937691. 1

60348937692. 2

60348937693. 3

60348937694. 4

Question Number : 96 Question Id : 6034899939 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

The surface of mars appears to be red due to?

1. Traces of water on rocks
2. Rust or Iron Oxide
3. Iron Chloride
4. Haemoglobin

Options :

60348937695. 1

60348937696. 2

60348937697. 3

60348937698. 4

Question Number : 97 Question Id : 6034899940 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

The seawater near magma is acidic due to

- A. Hydrogen bromide
- B. Sulphur dioxide
- C. Nitrogen dioxide
- D. Hydrogen sulphide

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

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

Options :

60348937699. 1

60348937700. 2

60348937701. 3

60348937702. 4

Question Number : 98 Question Id : 6034899941 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

Rule of 13 for deducing structural formula from given mass spectrum assumes that the molecule is made up of

1. Carbon and Hydrogen
2. Carbon and Oxygen
3. Carbon, Oxygen and Hydrogen
4. Carbon, Oxygen and Halogen

Options :

60348937703. 1

60348937704. 2

60348937705. 3

60348937706. 4

Question Number : 99 Question Id : 6034899942 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

According to Stevenson rule, when cleaving a bond, the charge preferentially remains on the fragment with the

1. Highest ionization energy
2. Lowest ionization energy
3. Maximum number of Oxygen atoms
4. Maximum number of vacant d orbitals

Options :

60348937707. 1

60348937708. 2

60348937709. 3

60348937710. 4

Question Number : 100 Question Id : 6034899943 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

If two fragments have same ionization energy, the one which is formed in more yield has

1. more number of atoms
2. more number of electrons
3. more number of lone pairs
4. more number of unpaired electrons

Options :

60348937711. 1

60348937712. 2

60348937713. 3

60348937714. 4