

National Testing Agency

Question Paper Name :	Online Refresher Course in Chemistry for Higher Education Faculty 15th Sep 2020 Shift 2
Subject Name :	Online Refresher Course in Chemistry for Higher Education Faculty
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Display Marks:	Yes
Share Answer Key With Delivery Engine :	Yes
Actual Answer Key :	Yes

Online Refresher Course in Chemistry for Higher Education Faculty

Group Number :	1
Group Id :	89951430
Group Maximum Duration :	0
Group Minimum Duration :	120
Show Attended Group? :	No
Edit Attended Group? :	No
Break time :	0
Group Marks :	100
Is this Group for Examiner? :	No

Online Refresher Course in Chemistry for Higher Education Faculty

Section Id :	89951430
Section Number :	1
Section type :	Online

Mandatory or Optional :	Mandatory
Number of Questions :	100
Number of Questions to be attempted :	100
Section Marks :	100
Display Number Panel :	Yes
Group All Questions :	Yes
Mark As Answered Required? :	Yes
Sub-Section Number :	1
Sub-Section Id :	89951443
Question Shuffling Allowed :	Yes

Question Number : 1 Question Id : 8995142550 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Two of the three recipients, George P. Smith and Sir Gregory P. Winter were awarded Nobel Prize 2018 in Chemistry

- for developing cryo-electron microscopy for the high resolution structure determination of biomolecules in solution
- For the phage display of peptides and antibodies
- For the design and synthesis of molecular machines
- For mechanistic studies of DNA Repair

Options :

89951410155. 1

89951410156. 2

89951410157. 3

89951410158. 4

Question Number : 2 Question Id : 8995142551 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

UNESCO is celebrating the year 2019 as

- a. International year of Chemistry
- b. International year of Synthetic studies in Chemistry
- c. International year of Polymers
- d. International year of the Periodic Table of Chemical Elements

Options :

89951410159. 1

89951410160. 2

89951410161. 3

89951410162. 4

Question Number : 3 Question Id : 8995142552 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The re-definition of the SI Base Unit – Kelvin is based on

- a. Speed of light
- b. Boltzmann Constant
- c. Cesium atom's natural microwave radiation
- d. Planck's Constant

Options :

89951410163. 1

89951410164. 2

89951410165. 3

89951410166. 4

Question Number : 4 Question Id : 8995142553 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The World Environment Day 2019 has the following theme.

- a. Environment Pollution
- b. Water Pollution
- c. Air Pollution
- d. Urban Pollution

Options :

- 89951410167. 1
- 89951410168. 2
- 89951410169. 3
- 89951410170. 4

Question Number : 5 Question Id : 8995142554 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Sir Ernest Rutherford's atomic model was based on which experiment?

- a. Scattering of alpha rays
- b. Scattering of X-Rays
- c. Plum-pudding model
- d. Thermonuclear reactions

Options :

- 89951410171. 1
- 89951410172. 2
- 89951410173. 3
- 89951410174. 4

Question Number : 6 Question Id : 8995142555 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The element of periodic table with atomic number 104 is :

- a. Rutherfordium
- b. Ununtetrium
- c. Walton
- d. Rutherford

Options :

89951410175. 1

89951410176. 2

89951410177. 3

89951410178. 4

Question Number : 7 Question Id : 8995142556 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The following chemical symbol represents



- a. Harmful nature of chemical
- b. Explosive nature of chemical
- c. Flammable when wet nature of chemical
- d. Lachrymatory nature of chemical

Options :

89951410179. 1

89951410180. 2

89951410181. 3

89951410182. 4

Question Number : 8 Question Id : 8995142557 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The following chemical symbol represents



- a. Harmful nature of chemical
- b. Narcotic nature of chemical
- c. Low hazard nature of chemical
- d. Toxic nature of chemical

Options :

89951410183. 1

89951410184. 2

89951410185. 3

89951410186. 4

Question Number : 9 Question Id : 8995142558 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

MSDS stands for

- a. Material Safety Data System
- b. Material Safety Data Sheet
- c. Matter Safety Data Sheet
- d. Matter Safety Data System

Options :

89951410187. 1

89951410188. 2

89951410189. 3

89951410190. 4

Question Number : 10 Question Id : 8995142559 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The following chemical symbol represents



- a. Carcinogenic nature of chemical
- b. Corrosive nature of chemical
- c. Narcotic nature of chemical
- d. Toxic nature of chemical

Options :

89951410191. 1

89951410192. 2

89951410193. 3

89951410194. 4

Question Number : 11 Question Id : 8995142560 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The quantum of electromagnetic radiation is known as

- a. Electron
- b. Photon
- c. Neutron
- d. Proton

Options :

89951410195. 1

89951410196. 2

89951410197. 3

89951410198. 4

Question Number : 12 Question Id : 8995142561 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Which of the following rule/principle provides the interpretation that kinetic energy can never be zero?

- a. Pauli's principle
- b. Hund's rule
- c. Aufbau's principle
- d. Heisenberg's uncertainty principle

Options :

89951410199. 1

89951410200. 2

89951410201. 3

89951410202. 4

Question Number : 13 Question Id : 8995142562 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

What is the unit of Hamiltonian?

- a. Kg
- b. K cal mol⁻¹
- c. No units
- d. Same as that of energy

Options :

89951410203. 1

89951410204. 2

89951410205. 3

89951410206. 4

Question Number : 14 Question Id : 8995142563 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Which of the following is most likely to undergo substitution by SN1 mechanism?

- a. PhCH₂CH₂CH₂Br
- b. PhCH(CH₃)CH₂Br
- c. PhCMe₂Br
- d. PhCH₂CH(Me)Br

Options :

89951410207. 1

89951410208. 2

89951410209. 3

89951410210. 4

Question Number : 15 Question Id : 8995142564 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is

Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

A solution of conc. alcoholic KOH will preferentially promote which of the following reactions in 2-bromohexane?

- a. Substitution
- b. Elimination
- c. Addition
- d. Ionization

Options :

89951410211. 1

89951410212. 2

89951410213. 3

89951410214. 4

Question Number : 16 Question Id : 8995142565 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is

Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

What should one do in case of irritation in eyes while working in laboratory?

- a. Wash with water and apply Savlon
- b. Wash with water and apply Chloromycetin capsules and consult doctor
- c. Wash with water and cover with cloth
- d. Wash with water, close eye and apply pressure

Options :

89951410215. 1

89951410216. 2

89951410217. 3

89951410218. 4

Question Number : 17 Question Id : 8995142566 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is

Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

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

- a. plenty of water to drink followed by milk of magnesia or antacid
- b. plenty of water followed by lemon juice to drink
- c. plenty of water followed by 1 % acetic acid to drink
- d. plenty of water followed by dilute NaOH to drink

Options :

89951410219. 1

89951410220. 2

89951410221. 3

89951410222. 4

Question Number : 18 Question Id : 8995142567 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is

Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Select the one which is not a component of universal antidote for treating any poison ingestion?

- a. Common salt
- b. Active charcoal
- c. Tannic acid
- d. Magnesium oxide

Options :

89951410223. 1

89951410224. 2

89951410225. 3

89951410226. 4

Question Number : 19 Question Id : 8995142568 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

Which of the following practices must not be followed in case of poisonous gas inhalation?

- a. Move victim to open space
- b. Tighten clothing at the neck
- c. Do not crowd around the victim
- d. Inhale dilute vapors of ammonia

Options :

- 89951410227. 1
- 89951410228. 2
- 89951410229. 3
- 89951410230. 4

Question Number : 20 Question Id : 8995142569 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

The number of terms in the Hamiltonian for methane is

- a. 5
- b. 50
- c. 120
- d. 1

Options :

- 89951410231. 1
- 89951410232. 2
- 89951410233. 3
- 89951410234. 4

Question Number : 21 Question Id : 8995142570 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is

Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The Laplacian operator is represented as

a. $\left(\frac{\partial^2}{\partial x^2} + \frac{\partial^2}{\partial y^2} + \frac{\partial^2}{\partial z^2}\right) = \nabla^2$

b. $\left(\frac{\partial^2}{\partial x^2} + \frac{\partial^2}{\partial y^2} + \frac{\partial^2}{\partial xy^2}\right) = \nabla^2$

c. $\left(\frac{\partial^2}{\partial x^2} + \frac{\partial^2}{\partial xy^2} + \frac{\partial^2}{\partial z^2}\right) = \nabla^2$

d. $\left(\frac{\partial^2}{\partial x^2} + \frac{\partial^2}{\partial y^2} + \frac{\partial^2}{\partial yz^2}\right) = \nabla^2$

Options :

89951410235. 1

89951410236. 2

89951410237. 3

89951410238. 4

Question Number : 22 Question Id : 8995142571 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is

Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Which expression can correctly calculate the total number of terms in Hamiltonian of a chemical system where $n = \text{no. of nuclei}$ and $e = \text{no. of electrons}$

a. $\hat{H} = \frac{(n+e)(n+e+2)}{2}$

b. $\hat{H} = \frac{(n+e)(n+e+1)}{2}$

c. $\hat{H} = \frac{(n+e)(e+1)}{2}$

d. $\hat{H} = \frac{(n+e)(n+1)}{2}$

Options :

89951410239. 1

89951410240. 2

89951410241. 3

89951410242. 4

Question Number : 23 Question Id : 8995142572 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

A mixture contains fluoride ion. Which cation should be avoided?

- a. Cu^{2+}
- b. Co^{2+}
- c. Ca^{2+}
- d. Zn^{2+}

Options :

89951410243. 1

89951410244. 2

89951410245. 3

89951410246. 4

Question Number : 24 Question Id : 8995142573 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Which of these ions will be indicated if addition of ammonia solution produces a deep blue colour?

- a. Cu^{2+}
- b. Cd^{2+}
- c. Zn^{2+}
- d. Mn^{2+}

Options :

89951410247. 1

89951410248. 2

89951410249. 3

89951410250. 4

Question Number : 25 Question Id : 8995142574 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

What species is responsible for the reddish brown colour obtained when a drop of borate in HCl is placed on a turmeric paper

- a. Curumin
- b. Rosocyanine
- c. Xanthoproteic
- d. Boracumine

Options :

89951410251. 1

89951410252. 2

89951410253. 3

89951410254. 4

Question Number : 26 Question Id : 8995142575 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

What difficulty will you face in the analysis of the mixture $\text{SrCl}_2 + \text{MnSO}_4$?

- a. Chloride will be missed
- b. Sulphate will be missed
- c. Mn^{2+} will not be precipitated in Group IV
- d. Sr^{2+} will not be precipitated in Group V

Options :

89951410255. 1

89951410256. 2

89951410257. 3

89951410258. 4

Question Number : 27 Question Id : 8995142576 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

What is the starting point for drug discovery?

- a. Study of properties
- b. Interactions of compound with target
- c. Recognizing virus
- d. Structure

Options :

89951410259. 1

89951410260. 2

89951410261. 3

89951410262. 4

Question Number : 28 Question Id : 8995142577 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

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

- a. Gaussian
- b. GAMESS
- c. Bhageerath
- d. UniProt

Options :

89951410263. 1

89951410264. 2

89951410265. 3

89951410266. 4

Question Number : 29 Question Id : 8995142578 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

Which of the following is not a suitable solvent for oils and fats?

- a. Water
- b. Toluene
- c. n-Hexane
- d. Chloroform

Options :

89951410267. 1

89951410268. 2

89951410269. 3

89951410270. 4

Question Number : 30 Question Id : 8995142579 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

Saponification is hydrolysis of triglyceride esters

- a. By alkalis
- b. In digestive tracts of human beings
- c. By acids
- d. By salts

Options :

89951410271. 1

89951410272. 2

89951410273. 3

89951410274. 4

Question Number : 31 Question Id : 8995142580 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Consider the following statements

Assertion: Over boiling of trans fats converts them into cis fats.

Reason: Cis fats are beneficial and can promote good cholesterol.

Select the correct option:

- a. Assertion is correct and Reason is correct reasoning.
- b. Assertion is correct, but Reason is incorrect.
- c. Assertion is incorrect and Reason is a correct statement.
- d. Both Assertion and Reason are incorrect.

Options :

89951410275. 1

89951410276. 2

89951410277. 3

89951410278. 4

Question Number : 32 Question Id : 8995142581 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Vanaspati ghee is manufactured from natural oils by their

- a. Saponification
- b. Hydrogenation
- c. Oxidation
- d. Hydrogenation

Options :

89951410279. 1

89951410280. 2

89951410281. 3

89951410282. 4

Question Number : 33 Question Id : 8995142582 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Element Phosphorus was discovered by

- a. Newlands
- b. Moseley
- c. Mendeleev
- d. Henning Brand

Options :

89951410283. 1

89951410284. 2

89951410285. 3

89951410286. 4

Question Number : 34 Question Id : 8995142583 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Who discovered the Nobel Gases?

- a. Moseley
- b. Ramsay and Travers
- c. Meyer and Mendeleev
- d. Lavoisier

Options :

89951410287. 1

89951410288. 2

89951410289. 3

89951410290.4

Question Number : 35 Question Id : 8995142584 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

Who proposed the Modern periodic table by modifying the Mendeleev's table?

- a. Lavoisier
- b. Meyer
- c. Moseley
- d. Broek

Options :

- 89951410291.1
- 89951410292.2
- 89951410293.3
- 89951410294.4

Question Number : 36 Question Id : 8995142585 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

CFSE for d^3 octahedral configuration is found to be

- a. $-1.5 \Delta_0$
- b. $-3 \Delta_0$
- c. $-2 \Delta_0$
- d. $-1.2 \Delta_0$

Options :

- 89951410295.1
- 89951410296.2
- 89951410297.3
- 89951410298.4

Question Number : 37 Question Id : 8995142586 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

Which of the following will favour tetrahedral geometry

- a. Strong field ligands
- b. Weak Field ligands
- c. Positively charged ligands
- d. All ligands

Options :

- 89951410299. 1
- 89951410300. 2
- 89951410301. 3
- 89951410302. 4

Question Number : 38 Question Id : 8995142587 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

Which of the following is a correct representation of SI Unit for length?

- a. 279 mtr
- b. 279 Mtr
- c. 279 m
- d. 279 M

Options :

- 89951410303. 1
- 89951410304. 2
- 89951410305. 3
- 89951410306. 4

Question Number : 39 Question Id : 8995142588 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

Which of the following is a correct way of using SI units?

- a. Unit symbols must be written always in capital letters.
- b. A space is required between the magnitude and the unit
- c. When there is a combination of units, there should be no space between the symbols
- d. Unit symbols are always followed by a full stop

Options :

- 89951410307. 1
- 89951410308. 2
- 89951410309. 3
- 89951410310. 4

Question Number : 40 Question Id : 8995142589 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

SI unit for mass “kilogram” has recently been defined in terms of which physical constant?

- a. Elementary charge
- b. Avogadro’s constant
- c. Planck’s Constant
- d. Boltzmann constant

Options :

- 89951410311. 1
- 89951410312. 2
- 89951410313. 3
- 89951410314. 4

Question Number : 41 Question Id : 8995142590 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

The Firefly emits light due to which possible phenomenon?

- a. Bioluminescence
- b. Delayed fluorescence
- c. Fluorescence
- d. Phosphorescence

Options :

- 89951410315. 1
- 89951410316. 2
- 89951410317. 3
- 89951410318. 4

Question Number : 42 Question Id : 8995142591 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

In photochemistry, benzophenone is commonly used as a

- a. bioluminescent substance.
- b. photosensitizer.
- c. photoluminescent substance.
- d. all of these

Options :

- 89951410319. 1
- 89951410320. 2
- 89951410321. 3
- 89951410322. 4

Question Number : 43 Question Id : 8995142592 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is

Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

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

- a. Low extinction coefficients
- b. vertical transitions
- c. high ISC rates
- d. Stokes Shift

Options :

89951410323. 1

89951410324. 2

89951410325. 3

89951410326. 4

Question Number : 44 Question Id : 8995142593 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is

Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

According to the second law of photochemistry, how many molecules are activated for each photon of light absorbed by a chemical system in a photochemical reaction.

- a. only one molecule
- b. all the molecules of same substance
- c. all the molecules of reactants
- d. only those molecules which are having outer most shell unfilled

Options :

89951410327. 1

89951410328. 2

89951410329. 3

89951410330. 4

Question Number : 45 Question Id : 8995142594 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is

Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The following reaction is not an example of photochemical reaction.

- a. Photosynthesis
- b. Retinal isomerization
- c. Norrish reactions
- d. Diels Alder reaction

Options :

89951410331. 1

89951410332. 2

89951410333. 3

89951410334. 4

Question Number : 46 Question Id : 8995142595 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is

Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

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

- a. Thomson
- b. Schrödinger
- c. Bohr
- d. Rutherford

Options :

89951410335. 1

89951410336. 2

89951410337. 3

89951410338. 4

Question Number : 47 Question Id : 8995142596 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is

Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Which of the following is false about Valence Bond theory?

- Atomic orbitals are preserved
- Does not explain Hybridization
- Overlapping of atomic orbitals take place
- Proposed by Heitler & London

Options :

89951410339. 1

89951410340. 2

89951410341. 3

89951410342. 4

Question Number : 48 Question Id : 8995142597 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

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

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

Options :

89951410343. 1

89951410344. 2

89951410345. 3

89951410346. 4

Question Number : 49 Question Id : 8995142598 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Nuclear Magnetic Moment was discovered by

- Stern-Gerlach Experiment
- Molecular Beam Experiment
- Pudding Model
- Cathode Ray experiment

Options :

89951410347. 1

89951410348. 2

89951410349. 3

89951410350. 4

Question Number : 50 Question Id : 8995142599 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is

Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

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

- $\sqrt{\text{Separation between energy levels}}$
- $\sqrt{\text{Population difference}}$
- $\sqrt{\text{Number of Sweeps Coadded}}$
- $\sqrt{\text{mass of entity}}$

Options :

89951410351. 1

89951410352. 2

89951410353. 3

89951410354. 4

Question Number : 51 Question Id : 8995142600 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is

Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

TOCSY Stands for

- a. Total Correlation Spectroscopy
- b. Timed Correlation Spectroscopy
- c. Timed Corrected Spectroscopy
- d. Total Corrected Spectroscopy

Options :

89951410355. 1

89951410356. 2

89951410357. 3

89951410358. 4

Question Number : 52 Question Id : 8995142601 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The microcrystals in carbon fibres are composed of-

- a. Tetrahedral rings
- b. Square planar rings
- c. Pentagonal rings
- d. Hexagonal rings

Options :

89951410359. 1

89951410360. 2

89951410361. 3

89951410362. 4

Question Number : 53 Question Id : 8995142602 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Which statement concerning properties of carbon fibers is not correct?

- a. High strength to weight ratio
- b. Low density
- c. Low tensile strength
- d. Corrosion resistance

Options :

89951410363. 1

89951410364. 2

89951410365. 3

89951410366. 4

Question Number : 54 Question Id : 8995142603 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is

Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

In carbonization step, the semi-finished carbon fibers are heated-

- a. In presence of oxygen
- b. In absence of oxygen
- c. In presence of hydrogen
- d. In presence of nitrogen

Options :

89951410367. 1

89951410368. 2

89951410369. 3

89951410370. 4

Question Number : 55 Question Id : 8995142604 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is

Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

In Phase 1 Trial, the safety and pharmacology of a drug is tested on a group of :

- a. Healthy volunteers
- b. Unhealthy volunteers
- c. Patients having condition for that particular drug
- d. Patients having communicable disease

Options :

89951410371. 1

89951410372. 2

89951410373. 3

89951410374. 4

Question Number : 56 Question Id : 8995142605 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

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

- a. Aspirin
- b. Salicylic acid
- c. Codeine
- d. Morphine

Options :

89951410375. 1

89951410376. 2

89951410377. 3

89951410378. 4

Question Number : 57 Question Id : 8995142606 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

What is the full form of CTA?

- a. Clinical Trial Appeal
- b. Clinical Testing Application
- c. Clinical Trial Application
- d. Clinical Testing Apprehension

Options :

89951410379. 1

89951410380. 2

89951410381. 3

89951410382. 4

Question Number : 58 Question Id : 8995142607 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

What does QBD stands for?

- a. Quantity Before Demand
- b. Quality Before Demand
- c. Quality By Design
- d. Quantity By Demand

Options :

89951410383. 1

89951410384. 2

89951410385. 3

89951410386. 4

Question Number : 59 Question Id : 8995142608 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Syllabus is _____ while Curriculum is _____

- a. descriptive, prescriptive
- b. prescriptive, descriptive
- c. both are prescriptive
- d. both are descriptive

Options :

- 89951410387. 1
- 89951410388. 2
- 89951410389. 3
- 89951410390. 4

Question Number : 60 Question Id : 8995142609 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

In which year Kothari Commission was established to bring reforms in educational system of the country?

- a. 1952
- b. 1966
- c. 1959
- d. 1964

Options :

- 89951410391. 1
- 89951410392. 2
- 89951410393. 3
- 89951410394. 4

Question Number : 61 Question Id : 8995142610 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Choose the correct statement

- a. We can inculcate the values through physical education only.
- b. Values cannot be inculcated by education system.
- c. Values can be inculcated through curriculum having physical sciences, social sciences and soft skills.
- d. Values are not the part of curriculum.

Options :

- 89951410395. 1
- 89951410396. 2
- 89951410397. 3
- 89951410398. 4

Question Number : 62 Question Id : 8995142611 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

The crystal structures can be studied using

- a. X-rays
- b. Gamma rays
- c. UV-rays
- d. Radio waves

Options :

- 89951410399. 1
- 89951410400. 2
- 89951410401. 3
- 89951410402. 4

Question Number : 63 Question Id : 8995142612 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

Which of the following is correctly matched?

- a. Monoatomic gases: short range order
- b. Amorphous material: long range order
- c. Liquid crystals: short range order
- d. Crystalline material: Long range order

Options :

89951410403. 1

89951410404. 2

89951410405. 3

89951410406. 4

Question Number : 64 Question Id : 8995142613 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Which of the following statements is false?

- a. X-rays are produced when high – energy charged particles collide with matter
- b. X-ray spectra consists of a broad spectrum of wavelengths known as black radiation
- c. Filters are used to decrease the spread of wavelengths in the X-ray.
- d. Beam from an X-ray tube contains large proportion of convergent and divergent radiation.

Options :

89951410407. 1

89951410408. 2

89951410409. 3

89951410410. 4

Question Number : 65 Question Id : 8995142614 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is

Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Lorentz factor is correctly represented by the equation

- a. *Lorentz factor* = $(1/\sin 2\theta) \cdot \cos \theta \cdot (1/\sin 2\theta)$
- b. *Lorentz factor* = $(1/\sin 2\theta) \cdot \cos \theta$
- c. *Lorentz factor* = $(1/\sin 2\theta)$
- d. *Lorentz factor* = $(1/\sin 2\theta) \cdot (1/\sin 2\theta)$

Options :

89951410411. 1

89951410412. 2

89951410413. 3

89951410414. 4

Question Number : 66 Question Id : 8995142615 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is

Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Which of the following is not an electrophile?

- a. K^+
- b. H^+
- c. Cl^+
- d. Br^+

Options :

89951410415. 1

89951410416. 2

89951410417. 3

89951410418. 4

Question Number : 67 Question Id : 8995142616 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is

Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

CCl_4 acts as an electrophile due to

- a. $-\text{I}$ effect of Cl atoms
- b. $+\text{I}$ effect of Cl atoms
- c. Incomplete octet
- d. Vacant p orbital of carbon

Options :

89951410419. 1

89951410420. 2

89951410421. 3

89951410422. 4

Question Number : 68 Question Id : 8995142617 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

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

- a. I-131
- b. Tc-99
- c. Ra-223
- d. P-32

Options :

89951410423. 1

89951410424. 2

89951410425. 3

89951410426. 4

Question Number : 69 Question Id : 8995142618 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Predict the correct order of stability of carbocations?

- a. $3^\circ > 2^\circ > 1^\circ$
- b. $2^\circ > 3^\circ > 1^\circ$
- c. $1^\circ > 2^\circ > 3^\circ$
- d. $1^\circ > 3^\circ > 2^\circ$

Options :

89951410427. 1

89951410428. 2

89951410429. 3

89951410430. 4

Question Number : 70 Question Id : 8995142619 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The bond angle in case of sp hybridization is

- a. 30°
- b. 120°
- c. 90°
- d. 180°

Options :

89951410431. 1

89951410432. 2

89951410433. 3

89951410434. 4

Question Number : 71 Question Id : 8995142620 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The relative overlap of orbitals decreases in the order

- a. $sp > sp^2 > sp^3 > p$
- b. $sp^2 > sp > sp^3 > p$
- c. $sp^2 > sp^3 > sp > p$
- d. $p > sp > sp^2 > sp^3$

Options :

89951410435. 1

89951410436. 2

89951410437. 3

89951410438. 4

Question Number : 72 Question Id : 8995142621 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

How many axial bonds are present in PCl_5 ?

- a. 5
- b. 2
- c. 3
- d. 1

Options :

89951410439. 1

89951410440. 2

89951410441. 3

89951410442. 4

Question Number : 73 Question Id : 8995142622 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Which of the following is not true about hybridization?

- a. Hybridization is a physical phenomena
- b. There can be infinite number of different hybrids (mixtures)
- c. Hybrid orbitals are abstractions that describe reality fairly well
- d. The hybrids can be defined by p to s ratio of the contributing orbitals

Options :

89951410443. 1

89951410444. 2

89951410445. 3

89951410446. 4

Question Number : 74 Question Id : 8995142623 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Who gave the rule of eight?

- a. Einstein
- b. Abegg
- c. Thompson
- d. Kossel

Options :

89951410447. 1

89951410448. 2

89951410449. 3

89951410450. 4

Question Number : 75 Question Id : 8995142624 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Which of the following is not true about Hamiltonian?

- a. Hamiltonian is an energy operator
- b. Hamiltonian is taken as sum of kinetic energy operator and potential energy operator
- c. Different chemical systems can have same Hamiltonian
- d. Hamiltonian is defined for every system quantum mechanically

Options :

89951410451. 1

89951410452. 2

89951410453. 3

89951410454. 4

Question Number : 76 Question Id : 8995142625 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Which of the following is monoatomic at room temperature?

- a. Hydrogen
- b. Helium
- c. Oxygen
- d. Bromine

Options :

89951410455. 1

89951410456. 2

89951410457. 3

89951410458. 4

Question Number : 77 Question Id : 8995142626 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

What is the store house of information quantum mechanically?

- a. Wave-function
- b. Hamiltonian
- c. Energy
- d. Radius of atom

Options :

89951410459. 1

89951410460. 2

89951410461. 3

89951410462. 4

Question Number : 78 Question Id : 8995142627 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

From a pedagogical point of view, which of the following is important advantage of Computational chemistry?

- a. To investigate unusual temperatures/pressures.
- b. To simulate dangerous experiments, hazardous chemicals.
- c. To gain an atomistic description of a reaction.
- d. To save lab costs.

Options :

89951410463. 1

89951410464. 2

89951410465. 3

89951410466. 4

Question Number : 79 Question Id : 8995142628 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

ArgusLab reads which of the following file formats:

- a. XML
- b. docx
- c. pdf
- d. jpeg

Options :

89951410467. 1

89951410468. 2

89951410469. 3

89951410470. 4

Question Number : 80 Question Id : 8995142629 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Which of the following Open source software for chemistry has been discussed in a module for this ARPIT course?.

- a. Calibre
- b. CrystalMol
- c. ArgusLab
- d. ChemDraw

Options :

89951410471. 1

89951410472. 2

89951410473. 3

89951410474. 4

Question Number : 81 Question Id : 8995142630 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

As teachers while framing good questions which category as per Bloom's taxonomy should be avoided for decreasing the rote learning?

- a. Remember
- b. Apply
- c. Analyze
- d. Evaluate

Options :

- 89951410475. 1
- 89951410476. 2
- 89951410477. 3
- 89951410478. 4

Question Number : 82 Question Id : 8995142631 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

How many marks questions in a 50 marks paper should be taken ideally from a unit which is assigned 6 hrs teaching whereas the total syllabus is to be covered in 60 hrs?

- a. 3 marks
- b. 5 marks
- c. 6 marks
- d. 10 marks

Options :

- 89951410479. 1
- 89951410480. 2
- 89951410481. 3
- 89951410482. 4

Question Number : 83 Question Id : 8995142632 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

What is the red coloured ruby gemstone composed of chemically?

- a. Chromium oxide
- b. Aluminum oxide with Chromium
- c. Aluminum oxide
- d. Potassium permanganate

Options :

89951410483. 1

89951410484. 2

89951410485. 3

89951410486. 4

Question Number : 84 Question Id : 8995142633 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

One Dalton is approximately equal to

- a. Mass of one proton
- b. Mass of one neutron
- c. Mass of one nucleon
- d. Mass of proton + Mass of electron

Options :

89951410487. 1

89951410488. 2

89951410489. 3

89951410490. 4

Question Number : 85 Question Id : 8995142634 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The detector in mass spectrometry detects _____.

- a. Neutral molecules
- b. Ions
- c. Electrons
- d. Radicals

Options :

89951410491. 1

89951410492. 2

89951410493. 3

89951410494. 4

Question Number : 86 Question Id : 8995142635 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The best method to detect the presence of isotopes of an element is

- a. Microwave spectroscopy
- b. Mass Spectrometry
- c. Vis spectroscopy
- d. UV Spectroscopy

Options :

89951410495. 1

89951410496. 2

89951410497. 3

89951410498. 4

Question Number : 87 Question Id : 8995142636 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

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

- a. Ornithology
- b. Selenography
- c. Cryogenics
- d. Petrology

Options :

89951410499. 1

89951410500. 2

89951410501. 3

89951410502. 4

Question Number : 88 Question Id : 8995142637 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Which is the lightest solid known?

- a. Calcium carbonate
- b. Aluminum metal
- c. Aerogel
- d. Soap Stone

Options :

89951410503. 1

89951410504. 2

89951410505. 3

89951410506. 4

Question Number : 89 Question Id : 8995142638 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Name the substance having a characteristic smell and is produced when lightning strikes.

- a. Nitrous oxide
- b. Sulfur dioxide
- c. Carbon monoxide
- d. Ozone

Options :

89951410507. 1

89951410508. 2

89951410509. 3

89951410510. 4

Question Number : 90 Question Id : 8995142639 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Which colour in flame is produced by barium ions?

- a. Orange
- b. Apple green
- c. Crimson red
- d. Bluish Green

Options :

89951410511. 1

89951410512. 2

89951410513. 3

89951410514. 4

Question Number : 91 Question Id : 8995142640 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

What is the unit to measure purity of gold?

- a. Carat
- b. Karat
- c. Clarity
- d. Cut

Options :

89951410515. 1

89951410516. 2

89951410517. 3

89951410518. 4

Question Number : 92 Question Id : 8995142641 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Flame is initiated by rubbing on a rough surface which of the following component present on tip of a match stick

- a. Phosphorus Sesquisulfide
- b. Lead oxide
- c. Antimony trisulphide
- d. Phosphorus oxide

Options :

89951410519. 1

89951410520. 2

89951410521. 3

89951410522. 4

Question Number : 93 Question Id : 8995142642 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The commercial production of vanadium is mainly as

- a. Ferrovandium
- b. Iron vanadium tetraoxide
- c. Vanadium Oxide
- d. Vanadium Nitride

Options :

89951410523. 1

89951410524. 2

89951410525. 3

89951410526. 4

Question Number : 94 Question Id : 8995142643 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

When mercury is rubbed over an aluminium sheet, it leads to production of

- a. Aluminium Oxide
- b. Aluminium Amalgam
- c. Fibrous Alumina
- d. Aluminium Nitride

Options :

89951410527. 1

89951410528. 2

89951410529. 3

89951410530. 4

Question Number : 95 Question Id : 8995142644 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

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?

- a. Nickel
- b. Copper
- c. Zinc
- d. Silver

Options :

- 89951410531. 1
- 89951410532. 2
- 89951410533. 3
- 89951410534. 4

Question Number : 96 Question Id : 8995142645 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The surface of mars is red due to?

- a. Traces of water on rocks
- b. Rust or Iron Oxide
- c. Iron Chloride
- d. Haemoglobin

Options :

- 89951410535. 1
- 89951410536. 2
- 89951410537. 3
- 89951410538. 4

Question Number : 97 Question Id : 8995142646 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Who have been awarded Nobel prize in chemistry for the year 2019?

- a. Frances H. Arnold, George P. Smith and Sir Gregory P. Winter
- b. Akira Yoshino, M. Stanley Whittingham, John B. Goodenough
- c. Jacques Dubochet, Joachim Frank and Richard Henderson
- d. Jean-Pierre Sauvage, Sir J. Fraser Stoddart and Bernard L. Feringa

Options :

- 89951410539. 1
- 89951410540. 2
- 89951410541. 3
- 89951410542. 4

Question Number : 98 Question Id : 8995142647 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

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

- a. Carbon and Hydrogen
- b. Carbon and Oxygen
- c. Carbon, Oxygen and Hydrogen
- d. Carbon, Oxygen and Halogen

Options :

- 89951410543. 1
- 89951410544. 2
- 89951410545. 3
- 89951410546. 4

Question Number : 99 Question Id : 8995142648 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

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

- a. Highest ionization energy
- b. Lowest ionization energy
- c. Maximum number of Oxygen atoms
- d. Maximum number of vacant d orbitals

Options :

- 89951410547. 1
- 89951410548. 2
- 89951410549. 3
- 89951410550. 4

Question Number : 100 Question Id : 8995142649 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

If the parent ion mass number is odd, it indicates presence of _____ in the compound

- a. Odd number of Nitrogen atoms
- b. Even number of Nitrogen atoms
- c. Odd number of H atoms
- d. Even number of Nitrogen atoms and odd number of H atoms

Options :

- 89951410551. 1
- 89951410552. 2
- 89951410553. 3
- 89951410554. 4