सफलता की शुरुआत सिर्फ मोशन के साथ...



ICSE

10th Board

Semester 1 - 2021

PAPER WITH SOLUTION CHEMISTRY

Toll Free: 1800-212-1799

Corporate Office: 394, Rajeev Gandhi Nagar, Kota

Motion[®]

मोशन के परिणाम ही है, सफलता का प्रमाण

JEE MAIN 2021 RESULT



Students Qualified for JEE ADVANCED 2994/4087 = 73.25%

JEE ADVANCED 2021 RESULT



24 Student Under 500

41 Student Under 1000

Motion's Selection 1256/2994 = 41.95%

NEET 2020 RESULT



Kartikey Agarwal

Ronit Singh

Cyril Joel Deva Asir

Rahul Yadav

Above 650 Marks

Above 625 Marks

Above 600 Marks

Students Qualified **2663 / 2843 = 93.66%**

hydroxide solution to an aqueous solution of ferric chloride is:

(A) gelatinous white (B) pale blue

The colour of the precipitate formed after the addition of a small amount of sodium

(C) reddish brown

(D) dirty green

9.

Ans.

(D)

10. Alkaline earth metals have the same:

(A) number of valence electrons

(B) number of shells

(C) metallic property

(D) ionization potential

Ans. (A)

11. Which of the following compounds neither dissociate nor ionise in water?

(A) Hydrochloric acid

(B) Sodium hydroxide

(C) Potassium Nitrate

(D) Carbon tetrachloride

Ans. (D)

12. The table shows the electronic configuration of four elements

element	electronic		
	configuration		
W	2,6		
X	2,8		
Υ	2,8,1		
Z	2,8,7		

Which pair of atoms, will form a covalent compound?

(A) two atoms of W

(B) two atoms of X

(C) an atom of W and an atom of X

(D) an atom of Y and an atom of Z

Ans. (A)

13. Element with an atomic number 19 will:

(A) accept an electron and get oxidized

(B) accept an electron and get reduced

(C) lose an electron and get oxidized

(D) lose an electron and get reduced

Ans. (C)

14. Which of the following has two sets of lone pair of electrons in them?

(A) Ammonia

(B) Methane

(C) Water

(D) Ammonium ion

Ans. (C)

15. If the empirical mass of the formula PO_2 is 10 and the Relative Molecular Mass is 30, then the molecular formula will be:

(A) PQ₂

(B) P_3Q_2

(C) P_6Q_3

(D) P_3Q_6

Ans. (D)

16. Which of the following is a tribasic acid?

(A) H₂SO₄

(B) $AI(OH)_3$

(C) H_3PO_4

(D) $Ca(OH)_2$

Ans. (C)

17. If a solution of an electrolyte mixture has calcium ions, cupric ions, zinc ions and magnesium ions, which of these ions would you see preferentially discharged at the cathode?

(A) Calcium ions

(B) Zinc ions

(C) Cupric ions

(D) Magnesium ions

Ans. (C)

18. Which of the following ions will readily discharge at the anode during the electrolysis of acidulated water?

(A) OH-

(B) SO_4^{2-}

(C) Cl⁻

(D) H⁺

Ans. (A)

19. If the empirical formula of a compound is CH and its vapour density is 13, then its molecular formula will be:

(At, Wt. C = 12, H = 1)

(A) CH

(B) C_2H_2

(C) C_4H_4

(D) C_3H_3

Ans. (B)

20. Aqueous solution of Cupric chloride forms a deep blue solution on addition of:

(A) dropwise sodium hydroxide

(B) excess sodium hydroxide

(C) dropwise ammonium hydroxide

(D) excess ammonium hydroxide

Ans. (D)

21. Which statement about conduction of electricity is correct?

(A) Electricity is conducted in aqueous solution by electrons

(B) Electricity is conducted in a metal wire by ions

(C) Electricity is conducted in a molten electrolyte by electrons

(D) Electricity is conducted in an acid solution by ions

Ans. (D)

22. If an element has low ionization potential, then it is likely to be a:

(A) metal

(B) metalloid

(C) non metal

(D) inert gas

Ans. (A)

23. Which electron arrangement for the outer shell electrons in a covalent compound is correct?

(A) H · CI:

(B) *H*CI:

(C) H×N·H

(D) H*N*H

Ans. (C)

24. The product formed when an acid reacts with a base is:

(A) salt and hydrogen

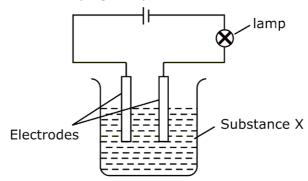
(B) salt and oxygen

(C) salt and water

(D) salt and carbon dioxide

Ans. (C)

25. In the circuit below, the lamp lights up.



What could X be?

- (A) a solution of alcohol in water
- (B) a solution of sodium chloride in water

(C) sugar solution

(D) solid potassium chloride

Ans. (B)

- **26.** Which one of the following is a non metallic cation?
 - (A) K⁺
- (B) NH_4^+
- (C) Cu²⁺
- (D) Na⁺

Ans. (B)

- **27.** Type of bonding present in hydrogen chloride:
 - (A) metallic
- (B) ionic
- (C) covalent
- (D) coordinate

Ans. (C)

- **28.** The non-metallic properties of elements from left to right in a Periodic Table:
 - (A) increases

(B) decreases

(C) remains same

(D) first increases and then decreases

Ans. (A)

- **29.** The aqueous solution that contains both ions and molecules:
 - (A) sulphuric acid

(B) nitric acid

(C) acetic acid

(D) hydrochloric acid

Ans. (C)

- **30.** The basic oxide which is an alkali:
 - (A) Copper oxide

(B) Sodium oxide

(C) Ferric oxide

(D) Zinc oxide

Ans. (B)

- **31.** If the pH of a solution is '2', then the solution is a
 - (A) Strong acid

(B) Strong alkali

(C) Weak acid

(D) Weak alkali

Ans. (A)

- **32.** The acidity of aluminium hydroxide is:
 - (A)3
- (B) 1
- (C) 4
- (D) 2

Ans. (A)

- 33. Hydracids are those acids which contain:
 - (A) Hydrogen with any metal
 - (B) Hydrogen, a non-metal and oxygen
 - (C) Hydrogen and a non-metal other than oxygen
 - (D) Hydrogen and oxygen only
- (C) Ans.
- 34. The oxidation reactions among the following is:
 - (A) $Fe^{3+} + 3e^{-} \rightarrow Fe$

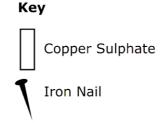
(B) $Fe^{2+} - 1e^{-} \rightarrow Fe^{3+}$

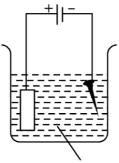
(C) $Cl_2 + 2e^- \rightarrow 2Cl^{1-}$

(D) $Cu^{2+} + 2e^{-} \rightarrow Cu$

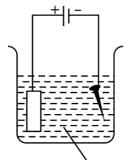
- Ans. (B)
- 35. A student added excess of sodium hydroxide solution to each of the salt solution. An insoluble precipitate formed was observed in:
 - (A) Calcium nitrate (B) Zinc nitrate
- (C) Lead nitrate
- (D) Sodium nitrate

- Ans. (C)
- 36. Which apparatus could be used to electroplate an iron nail with copper?





(A) Aqueous copper (II) sulphate



(C) Aqueous iron (II) sulphate

(B) Aqueous copper (II) sulphate

(D) Aqueous iron (II) sulphate

Ans. (A)

37. The table below shows the electronic arrangements of six atoms, A to F.

Atom	Α	В	С	D	Е	F
Electronic configuration	2,5	2	2,6	2,8,6	2,8,8	2,8,3

With respect to the table select the following:

(i) Two atoms from the same group of the periodic table:

(A) D and E

(B) C and D

(C) E and F

(D) C and E

Ans. (B)

(ii) Two noble gases:

(A) A and B

(B) E and F

(C) B and E

(D) D and E

Ans. (C)

(iii) The atom which is the most electronegative:

(A) A

(B) B

(C) C

(D) F

Ans. (C)

(iv) The atom which has the highest ionization potential:

(A) A

(B) B

(C) E

(D) F

Ans. (B)

अब मोशन ही है सर्वोत्तम विकल्प!



Managing Director

Exp.: 18 yrs

Directors of Sarvottam Career Institute

Now associated with Motion Kota Classroom



Lalit Vijay (LV Sir) Deputy Director Exp. : 19 yrs



Ashish Bajpai (AB Sir) Deputy Director Exp. : 19 yrs



Dr. Ashish Maheshwari (AM Sir) Deputy Director Exp. : 21 yrs



Deputy Director

Exp.: 19 yrs

G. S. Tiwari (GST Sir) Sr. Faculty Exp. : 20 yrs

Academic Pillars of NEET Motion Kota



Amit Verma (AV Sir) Joint Director Exp. : 16 yrs



Shantanu Gupta (SG Sir) Sr. Faculty Exp. : 11 yrs



Harmeet S. Bindra (Harmeet Sir) Sr. Faculty Exp. : 25 yrs



Renu Singh (RNS Ma'am) Sr. Faculty Exp. : 18 yrs



Kranti Deep Jain (KD Sir) Sr. Faculty Exp. : 21 yrs



Bharat Bhushan (Bharat Sir) Sr. Faculty Exp. : 11 yrs



Pranay Lahoty (PL Sir) Sr. Faculty Exp. : 8 yrs



Harshit Thakuria (HT Sir) Sr. Faculty Exp. : 11 yrs



Dr. Deepak Garg (Deepak Sir) Sr. Faculty Exp. : 6 yrs



S. K. Yadav (SKY Sir) Sr. Faculty Exp.: 9 yrs



Zeeshan Hussain (ZH Sir) Sr. Faculty Exp. : 8 yrs



Pawan Vijay (PV Sir) Sr. Faculty Exp.: 5 yrs



Sarthak Maurya (SM Sir) Sr. Faculty Exp. : 6 yrs



Deepak Bulani (DB Sir) Faculty Exp.: 7 yrs



Sonu Bulani (SB Sir) Faculty Exp. : 6 yrs

Directors of Nucleus Education & Wizard of Mathematics

Now Offline associated with Motion Kota Classroom



Akhilesh Kanther (AKK Sir) Exp. : 17 yrs

Vishal Joshi (VJ Sir) Exp. : 18 yrs

Surendra K. Mishra (SKM Sir) Exp. : 16 yrs



Gavesh Bhardwaj (GB Sir) Exp. : 17 yrs

Academic Pillars of JEE Motion Kota



Ram Ratan Dwivedi (RRD Sir) Joint Director Exp.: 20 yrs



Nikhil Srivastava (NS Sir) Head JEE Academics Exp. : 17 yrs



Aatish Agarwa (AA Sir) Sr. Faculty Exp. : 17 yrs



Jayant Chittora (JC Sir) Sr. Faculty Exp. : 16 yrs



Anurag Garg (AG Sir) Sr. Faculty Exp. : 17 yrs



rg Arjun Gupta
(Arjun Sir)
Sr. Faculty
rs Exp.: 14 yrs



Devki Nandan Pathak (DN Sir) Sr. Faculty Exp. : 13 yrs



Avinash Kishore (AVN Sir) Sr. Faculty Exp. : 9 yrs



Vipin Sharma (VS Sir) Sr. Faculty Exp. : 12 yrs



Sanjeev Kumar (Sanjeev Sir) Sr. Faculty Exp. : 8 yrs



Pramod Pottar (Pramod Sir) Sr. Faculty Exp. : 7 vrs



Durgesh Pandey (Pandey Sir) Sr. Faculty Exp. : 8 yrs

Olympiads है ज़रुरी, मोशन करवाएगा घर बैठे तैयारी पूरी

NTSE / IJSO & Olympiads Program

For Class 10th Students



Imprinting the best on your CBSE term 1 & 2 results!

Board Booster Online Program

For Class 10th Students



Saarthi

Class 11th se apke selection tak ka saccha saathi...

English & Hindi Medium



Drona

Coaching + Hostel + Quality Food Under One Roof

Residential Coaching Program

Discipline- Bridge between Dreams & Success



Motion[®]

Corporate Office: 394, Rajeev Gandhi Nagar, Kota-324005 | Toll Free: 1800-212-1799

url: www.motion.ac.in | Email: info@motion.ac.in