6.CHEMICAL DISPALCEMENT& DOUBLE DISPLACEMENT REACTIONS

SOLUTIONS

TEACHING TASK

JEE MAIN LEVEL

- 1. A displacement reaction will occur when...
 - A)a more reactive metal displaces a less reactive metal from its compound.
 - B)A less reactive metal displaces a more reactive metal from its compound
 - C)Displacement only occurs when two of the same metals are reacted
 - D)Displacement reactions will only occur in metals above iron in the reactivity series

Answer: A

Solution: Displacement reactions occur when a more reactive metal replaces a less reactive one in a compound

2. Calcium + zinc nitrate goes to

A)Calcium + zinc nitrate

B)Zinc + calcium nitrate

C)there will be no reaction

D)Zinc + calcium chloride

Answer: B

Solution: Calcium is more reactive than zinc, so it displaces zinc from zinc nitrate, forming calcium nitrate and zinc.

3. In the following chemical reaction, what product is represented by X?

 $AlCl_3 + NaOH \rightarrow X + NaCl$

A)Al₃OH B)It cannot be determined. C)Al(OH)₃ D)AlOH

Answer:Č

Solution:(The reaction is a double displacement, forming aluminum hydroxide and sodium chloride: $AlCl_3 + 3NaOH \rightarrow Al(OH)_3 + 3NaCl$

4. Decreasing order of reactivity of metals:

A)Na>Cu>Ag

B)Cu>Na>Zn

C)Na>K>A1

D)K>Au>Al

Answer:A

Solution: Sodium (Na) is highly reactive, while copper (Cu) and silver (Ag) are less reactive.

- 5. Which of the following is an example of chemical displacement?
 - (A) $Zn + 2HCl \rightarrow ZnCl_2 + H_2$

(B) $Zn + CuSO_4 \rightarrow ZnSO_4 + Cu$

(C) $Zn + H_2SO_4 \rightarrow ZnSO_4 + H_2$

(D) All

Answer:D

Solution:All reactions involve displacement: (A) Zn displaces H from HCl, (B) Zn displaces Cu from CuSO₄, (C) Zn displaces H from H₂SO₄.

6. When dilute sulphuric acid (H₂SO₄) reacts with ferrous sulphide (FeS), hydrogen sulphide (H2S) gas is produced; this is an example of (A) Chemical decomposition (B) chemical double decomposition (C) Chemical displacement (D) chemical combination Answer:B Solution: The reaction $H_2SO_4 + FeS \rightarrow FeSO_4 + H_2S$ involves exchange of ions, characteristic of double decomposition. **7**. $Mg + 2AgNO_3 \rightarrow Mg(NO_3)_2 + 2Ag$ (B) Double Decomposition Reaction (A) Decomposition reaction (C) Displacement reaction (D) None of these Answer:C Solution:Mg displaces Ag from $AgNO_3$, forming $Mg(NO_3)_2$ and Ag BaCl₂ + Na₂SO₄ → BaSO₄ - + 2NaCl is 8. (A) Precipitation reaction (B) Decomposition Reaction (D) Combination Reaction (C) Displacement Reaction Answer:A Solution:BaSO₄ forms as an insoluble precipitate, making this a precipitation reaction $Zn + CuSO_4 \rightarrow \underline{\hspace{1cm}} + Cu \text{ is example of}$ 9. (B) $Zn(SO_a)_2$, decomposition (A) 2ZnSO₄, displacement (C) ZnSO₄, double decomposition (D) ZnSO₄, displacement Answer:D Solution: Zn displaces Cu from CuSO₄, forming ZnSO₄—a classic displacement reaction. Reaction of sodium hydroxide with hydrochloric acid results in the formation 10. of sodium chloride and water follows: (A) Displacement reaction (B) Neutralisation reaction (D) Decomposition reaction (C) Both a & b Answer:B Solution: NaOH + HCl \rightarrow NaCl + H₂O is an acid-base neutralization reaction. 11. 2KI + Br₂ \rightarrow 2KBr + I₂. is an example of (A) Displacement (B) Combination (C) Both A & B (D) None of these Answer:A Solution:Br₂ displaces I₂ from KI, forming KBr and I₂—a halogen displacement reaction. $Zn + H_2SO_4 \rightarrow ZnSO_4 + H_2$ - is a **12.** (A) chemical combination (B) Chemical decomposition

Answer:C

(C) chemical displacement

Solution: Zn displaces hydrogen from H_2SO_4 , forming $ZnSO_4$ and H_2 gas

(D) none

JEE ADVANCED LEVEL

MULTI CORRECT ANSWER TYPE:

13. NaOH+HCl \rightarrow NaCl+ H $_{2}$ O is an example for

A)Displacement B)Decomposition

C)Neutralisation D)Double displacement reaction.

Answer:C,D

Solution: Neutralisation (C): The reaction involves an acid (HCl) and a base (NaOH) forming salt (NaCl) and water (H₂O).

Double displacement (D): The ions (Na⁺ and H⁺) exchange places between the reactants (NaOH and HCl).

14. Which of the following is/are precipitation reactions?

A)
$$NaC\ell(aq) + AgNO_3(aq) \longrightarrow AgC\ell(s) + NaNO_3(aq)$$

B)
$$CuSO_4(aq) + 2NaOH(aq) \longrightarrow Cu(OH)_2(s) + Na_2SO_4(aq)$$

$$\textbf{C)} \xrightarrow[(Compound)]{2A\ell(OH)_3(s)} \xrightarrow[(Compound)]{\Delta} A\ell_2O_3(s) + \underbrace{3H_2O}_{(Compound)}(g)$$

$$\textbf{D)} \ \ \overset{2Pb(NO_3)_2(s) \longrightarrow \overset{\Delta}{\longrightarrow} 2PbO(s) + 4NO_2(g) + O_2(g)}{\text{(Compound)} \ \ \text{(Compound)}} \\ \overset{(Compound)}{\longleftarrow} (\text{Element)}$$

Answer:A,B

Solution:Precipitation reactions involve the formation of an insoluble solid (precipitate) when two aqueous solutions are mixed.

Option A: AgCl (silver chloride) is a white precipitate.

Option B: Cu(OH)₂ (copper hydroxide) is a blue precipitate.

Option C: Decomposition (solid Al(OH)₃ breaks down into Al₂O₃ and H₂O).

Option D: Decomposition (solid Pb(NO3)2 breaks down into PbO, NO_2 , and O_2).

STATEMENT TYPE:

- A) Statement-I, is True, Statement II is True; Statement II is a correct explanation for Statement-I
- B) Statement I is True, Statement is True; Statement -II is NOT a correct explanation for Statement I
- C) Statement I is True, Statement II, is False
- D) Statement I is False, Statement II is True

15. Statement-I: $Fe+CuSO_4$ (aq) \rightarrow $FeSO_4$ (aq) +Cu is displacement reaction. Statement-II: More reactive element displaces less reactive element from its aqueous salt solution is called Displacement reaction.

Answer:A

Solution:Statement-I is true because iron (Fe) displaces copper (Cu) from CuSO₄, forming FeSO₄ and Cu. This is a classic displacement reaction.

Statement-II is true and correctly explains Statement-I. Iron is more reactive than copper (as per the reactivity series), so it displaces Cu from its salt solution.

16. Statement-I: Acid base reactions are double displacement reaction which are also called as neutralization reactions.

Statement-II: Hydrogen ion (H^+) from acid and hydroxyl ions (OH^-) from base combine to form salt and water.

Answer:B

Solution:Statement-I is true because acid-base reactions (e.g., HCl + NaOH \rightarrow NaCl + $\rm H_2O$) involve double displacement (ion exchange) and are termed neutralization reactions.

Statement-II is true (H⁺+ OH⁻ \rightarrow H₂O), but it does not explain why acid-base reactions are double displacement. The double displacement aspect arises from the exchange of ions (e.g., Na⁺ and H⁺ swapping places), not just H⁺ and OH⁻ combination.

COMPREHENSION TYPE:

Paragraph-I:

A more reactive element displaces less reactive element from its aqueous salt solution is called displacement reaction.

17. $AgNO_3+NaCl \rightarrow X + NaNO_3$. Identify X

A)NaN B)AgCl C) AgN D)NaO

Answer:B

Solution:AgNO₃+NaCl → AgCl ↓ + NaNO₃

18. A teacher performed the following experiment. He took a strip of lead metal and placed in a solution of copper chloride. Which of the following is the correct equation for the above reaction?

A)
$$Cu_2Cl + Pb \longrightarrow PbCl_2 + 2Cu$$

B)
$$CuSO_4 + Pb \longrightarrow PbSO_4 + Cu$$

C)
$$CuCl_2 + Pb \longrightarrow PbCl_2 + Cu$$

D)
$$Cu_2Cl_2 + 2Pb \longrightarrow PbCl_2 + Cu$$

Answer:C

Solution:Lead (Pb) is more reactive than copper (Cu) in the reactivity series.

Thus, Pb displaces Cu from CuCl₂.

Balanced Equation:CuC l_2 + Pb \longrightarrow PbC l_2 + Cu

Paragraph -II:

The reactions where chemical change takes place is called chemical reaction. There are 4 types of chemical reactions. A chemical reaction, in which two compounds in their aqueous solution react by exchanging their radicals, is called chemical double-decomposition or chemical double-displacement.

19. $CuSO_4 + Zn \rightarrow X + Cu$. What is x?

A)CuS B)ZnS C)ZnSO₄ D)ZnSO₃.

Answer: C

Solution:This is a displacement reaction where zinc (Zn), being more reactive than copper (Cu), displaces Cu from CuSO₄.

The balanced equation is: $CuSO_4 + Zn \rightarrow ZnSO_4 + Cu$

20. i) AgNO₃(aq) + NaCl(aq) \rightarrow P + Q ii) $PC \ell_5(s) \xrightarrow{Heat} R+S$

	_	_	_	
	\boldsymbol{P}	Q	\boldsymbol{R}	S
A)	AgC1	NaNO ₃	PCl_3	Cl_2
B)	NaNO ₃	PCl ₃	Cl ₂	AgCl
C)	AgCl	PCl_3	NaNO ₃	Cl_2
D)	AgC1	PCl_3	Cl_2	NaNO ₃

Answer: A

Solution:Part (i) Reaction:

This is a double displacement (precipitation) reaction:

 $AgNO_3 + NaCl \rightarrow AgCl \downarrow + NaNO_3$

P = AgCl (white precipitate), Q = NaNO₃ (sodium nitrate, soluble).

Part (ii) Matching:

The options are unrelated to the reaction but test knowledge of common compounds: R: PCl₃ (phosphorus trichloride) and S: Cl₂ (chlorine gas) are standalone chemicals. Only Option A correctly identifies P (AgCl) and Q (NaNO₃) from the reaction.

INTEGER TYPE:

21. Among Na, Ag, Zn, Pt how many are more reactive than iron? Answer: 2

Solution:Reactivity Series: K > Na > Ca > Mg > Al > Zn > Fe > Sn > Pb > Cu > Ag > Pt Comparison with Iron (Fe):

Na (Sodium): More reactive than Fe.

Zn (Zinc): More reactive than Fe.

Ag (Silver) and Pt (Platinum): Less reactive than Fe.

Conclusion: Only 2 metals (Na and Zn) are more reactive than iron.

22. Among K, Zn, Al, Cu,Sn how many metals cannot displace magnesium from magnesium sulphate?

Answer: 4

Solution: To displace magnesium (Mg) from MgSO₄, a metal must be more reactive than Mg.

From the reactivity series K > Na > Ca > Mg > Al > Zn > Fe > Sn > Pb > Cu > Ag > Pt

 $K \rightarrow More reactive \rightarrow Can displace$

 $Zn \rightarrow Less reactive \rightarrow Cannot displace$

Al →Less reactive → Cannot displace

 $Cu \rightarrow Less reactive \rightarrow Cannot displace$

MATRIX MATCH TYPE:

23. COLUMN -I

A CuSO₄+Fe

B. $C+O_2 \rightarrow CO_2$

C.NaOH +HCl→NaCl + H₂O

D. $AgNO_3$ + $NaCl \rightarrow NaNO_3$ + AgCl

Answer: A-4,B-1,C-2,D-3

Solution:

A. CuSO₄+Fe

B. $C+O_2 \rightarrow CO_2$

C.NaOH +HCl→NaCl + H₂O

D. AgNO₃+ NaCl→NaNO₃+ AgCl

COLUMN-II

- 1. combination
- 2. Neutralisation
- 3. Precipitation reaction
- 4. FeSO₄+ Cu.
- 4. FeSO₄+ Cu.
- 1. combination
- 2. Neutralisation
- 3. Precipitation reaction

LEARNER'S TASK

CONCEPTUAL UNDERSTANDING QUESTIONS (CUQ's)

1. When a more reactive element displaces less reactive element from its aqueous salt solution is called...

A)Combination reaction

B)Decomposition reaction

C) Displacement reaction

D) Double displacement reaction

Answer: C

Solution: A more reactive element displaces a less reactive one from its compound (e.g., $Zn + CuSO_4 \rightarrow ZnSO_4 + Cu$)

- 2. When two chemical compounds in their aqueous state exchange ions such that one of the product is precipitate is called...
 - A) Precipitation reaction

B)Decomposition reaction

C) Displacement reaction

D) Neutralisation reaction

Answer: A

Solution: Double displacement where ions exchange to form an insoluble solid (precipitate), e.g., $AgNO_3 + NaCl \rightarrow AgCl \downarrow + NaNO_3$.

- 3. Among the following types of chemical reactions, application of metal reactivity series is involved with which reaction?
 - A)Combination reaction

B)Decomposition reaction

C) Displacement reaction

D) Double displacement reaction.

Answer: C

Solution: The reactivity series predicts if a metal can displace another in a compound (e.g., $Mg + ZnSO_4 \rightarrow MgSO_4 + Zn$).

4. $AgNO_3 + NaCl \rightarrow AgCl + NaNO_3$ in the following equation the precipitate formed is

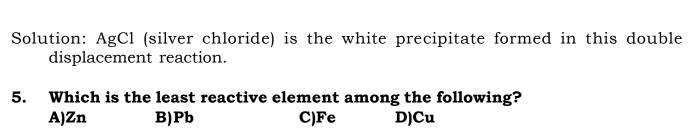
A)AgNO₃

B)NaC1

C) AgCl

D) NaNO₃

Answer: C



Answer: D

Solution: Reactivity order: Zn > Fe > Pb > Cu. Copper (Cu) is the least reactive among the options.

6. $Zn + 2HCl \rightarrow H_2 + ZnCl_2$ is reaction. A)Combination B)Decomposition C)Displacement D)Double displacement. Answer: C

Solution: Zn displaces H from HCl, forming H_2 gas and $ZnCl_2$.

7. Which is the least reactive element among the following in comaprision with Hydrogen?

A)Cu B)Ag C)Pt D)All the above

Answer: D

Solution: Cu, Ag, and Pt are below hydrogen (H) in the reactivity series, making them less reactive than H.

8. After the completion of a double displacement reaction, one of the products is usually

A) a solid precipitate,

B) a gas

C) a molecular compound such as water

D) All the above

Answer: D

Solution: Double displacement can produce: erating System Precipitate (e.g., AgCl),

Gas (e.g., CO₂ from Na₂CO₃ + HCl),

Water (e.g., in neutralization: HCl + NaOH \rightarrow NaCl + H₂O).

9. when the cations from one of the reactants combine with the anions from the other reactant to form an insoluble ionic compound. It is called

A)Combination reaction

B)Decomposition reaction

C) Displacement reaction

D)Precipitation reaction.

Answer: D

Solution: Formation of an insoluble ionic compound (e.g., BaSO₄ from BaCl₂ + Na₂SO₄).

10. A brilliant yellow precipitate is formed in the following reaction

 $A)Cl_2(aq) + 2NaBr(aq) \rightarrow 2NaCl(aq) + Br_2(aq)$

B)2KI(aq)+Pb(NO₃)₂(aq) \rightarrow 2KNO₃(aq)+PbI₂(s) \downarrow

C) $Na_2S(aq)+2HCl(aq) \rightarrow 2NaCl(aq)+H_2S(g)$

 $D)HCl(aq)+NaOH(aq) \rightarrow NaCl(aq)+H_2O(l)$

Answer: B

Solution: PbI₂ (lead iodide) is a bright yellow precipitate.

JEE MAINS LEVEL QUESTIONS

11. Which one of the following would the following result in a displacement reaction?

A)Iron with magnesium chloride C)Iron with Zinc Sulphate

B)magnesium with iron chloride D)Gold with silver nitrate

Answer:B

Solution: Displacement Reaction occurs when a more reactive metal displaces a less reactive metal from its compound.

Reactivity Series: Mg > Fe > Zn > Au

Option B: $Mg + FeCl_2 \rightarrow MgCl_2 + Fe$ (Mg is more reactive than Fe)

- 12. What is made when magnesium reacts with hydrochloric acid?
 - A)Magnesium nitrate and hydrogen gas
 - B)Magnesium sulfate and hydrogen gas
 - C) Magnesium oxide and oxygen gas
 - D)Magnesium chloride and hydrogen gas

Answer: D

Solution: Reaction: Mg + 2HCl \rightarrow MgCl₂ + H₂ \uparrow

This is a classic metal-acid displacement reaction, producing a salt (MgCl₂) and H₂ gas.

13. Which of the following will not undergo reaction?

A)Zinc metal + zinc oxide

B)Iron metal + copper oxide D)Magnesium + iron oxide

C)Zinc metal + iron oxide
Answer: A

Solution: A metal cannot displace itself from its own compound.

14. In which of the follwoing reaction the solution becomes bluish in colour

A) Silver + Copper nitrate

B) Zinc + Hydrochloric Acid

C) Copper + Silver nitrate

D) Silver nitrate + Sodium Hydroxide

Answer: C

Solution: Reaction: Cu + $2AgNO_3 \rightarrow Cu(NO_3)_2$ (blue) + $2Ag_{\uparrow}$ Cu(NO_3)₂ in water forms a blue-colored solution.

15. Which of the following reaction doesn't take place?

 $A)Mg(s)+Cu(NO_3)_2(aq) \rightarrow Mg(NO_3)_2(aq) + Cu(s)$

B)Cu(s)+Mg(NO₃)₂(aq) \rightarrow Cu(NO₃)₂(aq) + Mg(s)

C) $Cl_2(aq) + 2NaBr(aq) \rightarrow 2NaCl(aq) + Br_2(aq)$

D)Cu(s) + $2AgNo_3(aq) \rightarrow 2Ag(s) + Cu(NO_3)_2(aq)$

Answer: B

Solution:Cu is less reactive than Mg (Cu < Mg), so no displacement occurs.

16. In which of the following the blue solution turns light green in colour?

A) $CuSO_4 + Fe \rightarrow FeSO_4 + Cu$ B) $Cu(s) + Mg(NO_3)_2(aq) \rightarrow Cu(NO_3)_2(aq) + Mg(s)$

C) $Cl_2(aq) + 2NaBr(aq) \rightarrow 2NaCl(aq) + Br_2(aq)$

 $D)Cu(s) + 2AgNo_3(aq) \rightarrow 2Ag(s) + Cu(NO_3)_2(aq)$

Answer: A

Solution: CuSO₄ (blue solution)

Fe displaces Cu → FeSO₄ (light green solution)

This is a classic example of color change from blue \rightarrow light green

17. Which of the following statement is correct?

A)Fluorine is the most reactive halogen B)Iodine is the most reactive halogen C)Chlorine is the most reactive halogen D)Bromine is the most reactive halogen

Answer: A

Solution:Reactivity Order: F > Cl > Br > I

Fluorine is the most electronegative and reactive halogen.

18. Which of the following reaction takes palce

A)Cl₂(g)+2NaBr(aq)
$$\rightarrow$$
 2NaCl(aq)+Br₂(l) B) Br₂(g)+2NaI(aq) \rightarrow 2NaBr(aq)+I₂(l) C)Both A & B D) None of the above

Answer: C

Solution: Halogen Displacement: More reactive halogens displace less reactive ones.

A) $Cl_2 + 2NaBr \rightarrow 2NaCl + Br_2 (Cl_2 > Br_2)$

B) $Br_2 + 2NaI \rightarrow 2NaBr + I_2 (Br_2 > I_2)$

19. $HCl(aq)+NaOH(aq) \rightarrow NaCl(aq)+H_2O(l)$ is an example for

A) Neutralisation

B) Decomposition reaction

C) Double displacement reaction. D) Both A & C

Answer: D

Solution: Neutralization: Acid (HCl) + Base (NaOH) \rightarrow Salt (NaCl) + Water (H₂O).

Double Displacement: H⁺ and Na⁺ ions exchange places.

20. Which of the following reactions are precipitation reactions?

A) $AgNO_3 + NaCl \rightarrow AgCl + NaNO_3$

B) $BaCl_2(aq) + Na_2SO_4(aq) \rightarrow BaSO_4(s) + 2 NaCl_{(aq)}$

C) Both A & B

D) None

Answer: C

Solution: Precipitation involves formation of an insoluble solid.

A) $AgNO_3 + NaCl \rightarrow AgCl \downarrow$ (white ppt) + $NaNO_3$

B) $BaCl_2 + Na_2SO_4 \rightarrow BaSO_4 \downarrow$ (white ppt) + 2NaCl

JEE ADVANCED LEVEL

MULTICORRECT TYPE:

- 21. $(A^+ B^-) + (C^+ D^-) \rightarrow (A^+ D^-) + (C^+ B^-)$ represents:
 - A) Chemical displacement B) Chemical double displacement reaction.
 - C) Chemical double decomposition reaction. D) Chemical combination.

Answer: B,C

Solution: Understanding the Reaction Format:

The given equation represents:

$$(A^+ B^-) + (C^+ D^-) \rightarrow (A^+ D^-) + (C^+ B^-)$$

This shows an exchange of ions between two compounds.

A⁺ pairs with D⁻, and C⁺ pairs with B⁻

- A) Chemical displacement: Incorrect. Displacement involves one element replacing another in a compound (e.g., $Zn + CuSO_4 \rightarrow ZnSO_4 + Cu$). This is not ion exchange.
- B) Chemical double displacement: Correct. The reaction fits the definition of double displacement, where ions swap partners.
- C) Chemical double decomposition: Correct. This is an older term for double displacement, emphasizing the "decomposition" and recombination of ions.
- D) Chemical combination: Incorrect. Combination reactions involve two substances forming one product (e.g., $A + B \rightarrow AB$).

STATEMENT TYPE:

- A) Statement-I, is True, Statement II is True; Statement II is a correct explanation for Statement-I
- B) Statement I is True, Statement is True; Statement -II is NOT a correct explanation for Statement I
- C) Statement I is True, Statement II, is False
- D) Statement I is False, Statement II is True

22. Statement I: Lead nitrate on thermal decomposition gives lead oxide, brown coloured gas called nitrogen dioxide and oxygen gas

Statement II :lead nitrate reacts with potassium iodide to form yellow ppt of lead iodide and the reaction is double displacement as well as precipitation reaction.

Answer:B

Solution:

Statement I (True): $2Pb(NO_3)_2 \xrightarrow{\Delta} 2PbO + 4NO_2 \uparrow (brown) + O_2 \uparrow$

This is a thermal decomposition reaction, producing PbO, NO_2 , and O_2 .

Statement II (True but Unrelated): $Pb(NO_3)_2 + 2KI \longrightarrow PbI_2(yellow) + 2KNO_3$

This is a double displacement and precipitation reaction, but it does not explain Statement I.

23. Statement -I: A single product is formed in displacement reaction.

Statement -II: A single reactant is involved in decomposition reaction.

Answer:D

Solution: Statement I (False):

Displacement reactions always produce two products (e.g.,

Statement II (True):

Decomposition reactions involve one reactant breaking into multiple products (e.g.,

COMPREHENSION TYPE:

Comprehension-I:

A more reactive element displaces less reactive element from its aqueous salt solution is called displacement reaction.

24. $A+BC \rightarrow AC+B$ is reaction .

A)Combination

B)Decomposition

C)Displacement

D)Double displacement.

Answer:C

Solution: The given reaction A+BC \rightarrow AC+B represents a displacement reaction, where:

A more reactive element (A) displaces a less reactive element (B) from its compound (BC).

This follows the general form of displacement reactions, where one element replaces another in a compound.

INTEGER TYPE:

25. How many oxygen atoms are present in zinc sulphate?

Answer:4

Solution: Chemical Formula of Zinc Sulphate: ZnSO₄

Subscript for Oxygen (O): 4

Total Oxygen Atoms: 1 molecule of ZnSO₄ contains 4 oxygen atoms.

26. Double displacement reactions are of types.

Answer:3

Solution: Double displacement reactions are of three main types: precipitation, neutralization, and gas formation

MATRIX MATCH TYPE:

27. COLUMN -I

 $A)AB \rightarrow A + B$

B) $A+BC \rightarrow AC+B$

 $C)A+B \rightarrow AB$

D) $AB_{(aq)} + CD_{(aq)} \rightarrow AD_{(aq)} + CB_{(aq)}$ Answer:A-2,B-1,C-4,D-3

COLUMN-II

- 1) displacement
- 2) decomposition
- 3) double displacement
- 4) Combination

Solution:

A)AB
$$\rightarrow$$
A + B
B) A+ BC \rightarrow AC+B
C)A+B \rightarrow AB
D) AB_(aq) +CD_(aq) \rightarrow AD_(aq)+ CB_(aq)

- 2) decomposition
- 1) displacement
- 4) Combination
- 3) double displacement

KEY

					TEACHING	TASK				
					JEE MAIN	LEVEL				
	1	2	3	4	5	6	7	8	9	10
Α		В	С	Α	D	В	С	Α	D	В
	11	12								
Α		С								
				JEE ADVANCED LEVEL						
	13	14	15	16	17	18	19	20	21	22
C,D		A,B	Α	В	В	С	С	Α	2	4
	23									
A-4,B-1,C-2,D-3										
					LEARNER'	STASK				
				CONCEPT	CONCEPTUAL UNDERS <mark>TANDING Q</mark> UESTIONS (CUQ's)					
	1	2	3	4	5	6	7	8	9	10
С		Α	С	С	D	С	D	D	D	В
	JEE MAINS LEVEL QUESTIONS IN CONSTRUCTIONS									
	11	12	13	14	15	16	17	18	19	20
В		D	Α	С	В	Α	Α	С	D	С
					JEE ADVANCED LEVEL					
	21	22	23	24	25	26	27			
С		В	D	С	4	3	A-2,B-1,C-	4,D-3		

