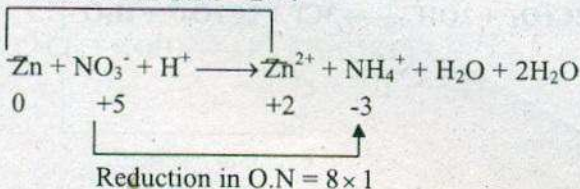
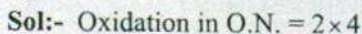
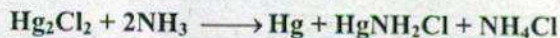
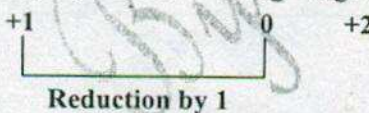
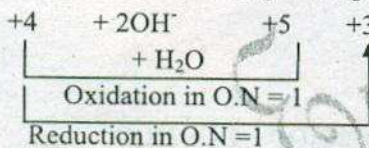
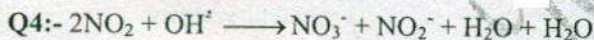
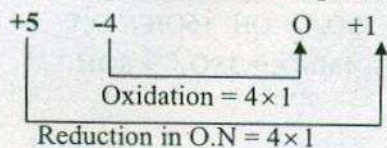
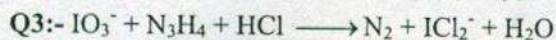
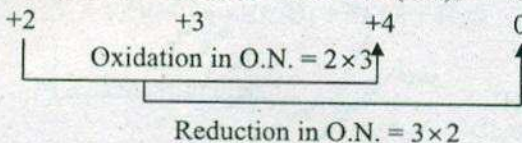
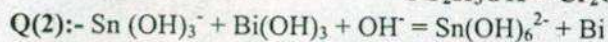
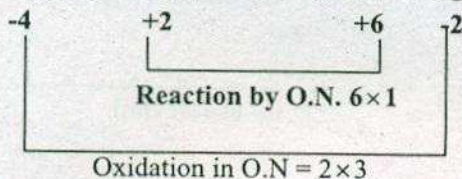
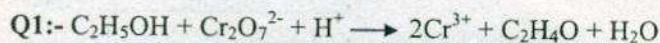


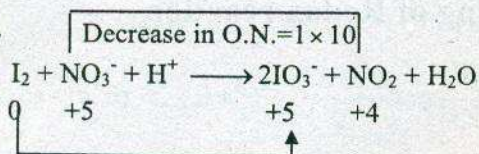
## 19. Oxidation number & balancing of Redox reaction



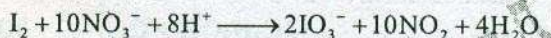
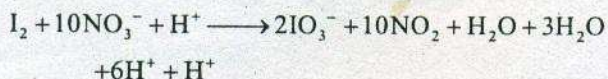


**Q7:-**

**Sol:-**

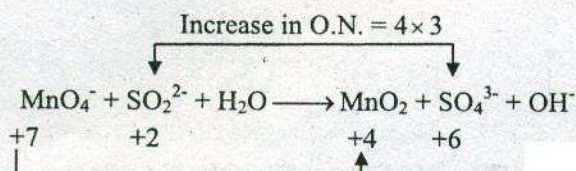


Increase in O.N. =  $10 \times 1$

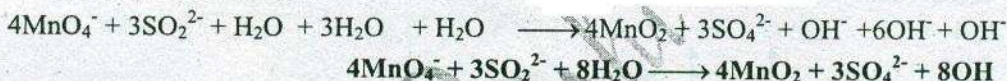


**Q8:-**

**Sol:-**

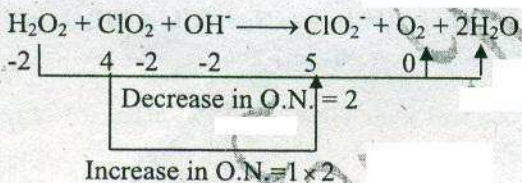


Decrease in O.N. =  $3 \times 4$



**Q 9:**

**Sol**

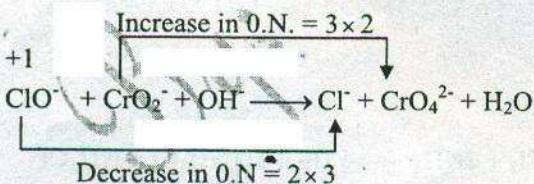


Increase in O.N. =  $1 \times 2$



**Q10:-**

**Sol:-**

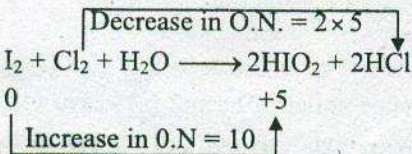


Decrease in O.N. =  $2 \times 3$



**Q11:**

**Sol:-**



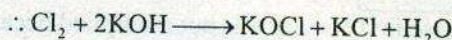
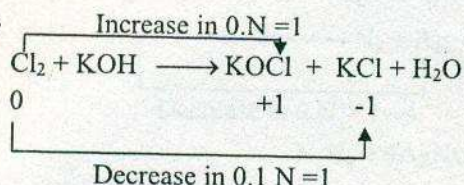
Increase in O.N. =  $10$





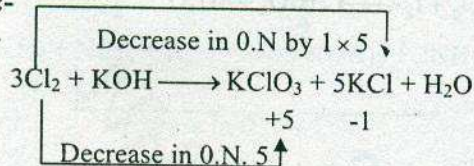
Q12:

Sol:-



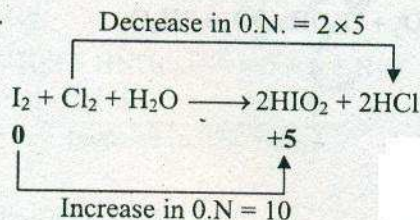
Q13:-

Sol:-



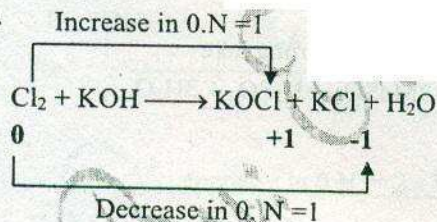
Q11:

Sol:-



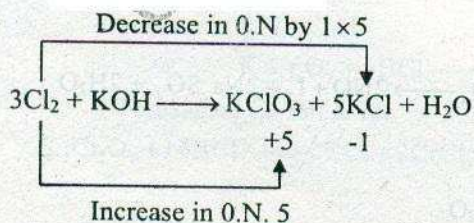
Q12:

Sol:-



Q13:-

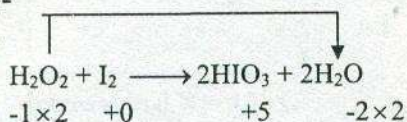
Sol:-





**Q14:-**

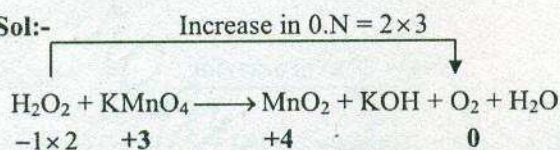
**Sol:-**



increase in O.N = 10 5 is not multiplied because all oxygen doesn't come here



**Q15Sol:-**

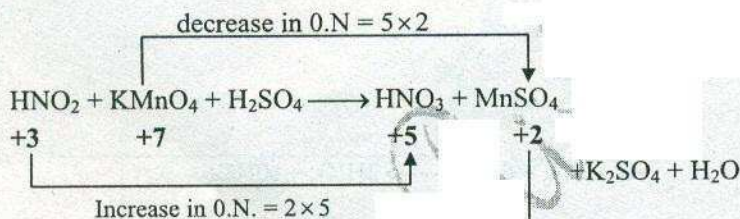


Decrease in O.N =  $3 \times 2$



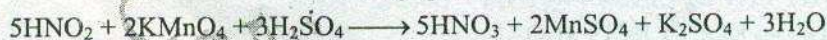
**Q16:**

**Sol:-**



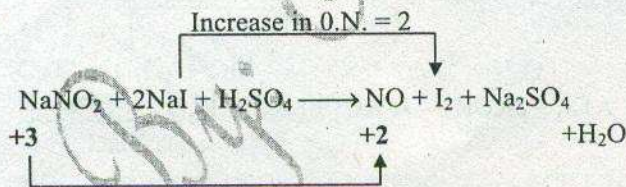
Increase in O.N. =  $2 \times 5$

Actually question is written wrong here



**Q17:**

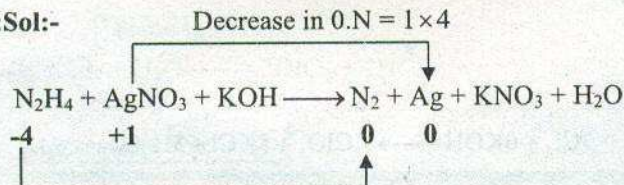
**Sol:-**



Decrease in O.N. =  $1 \times 2$



**Q18:Sol:-**

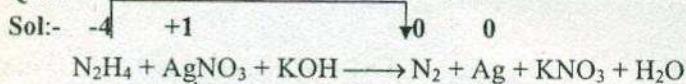


Increase in O.N =  $4 \times 1$





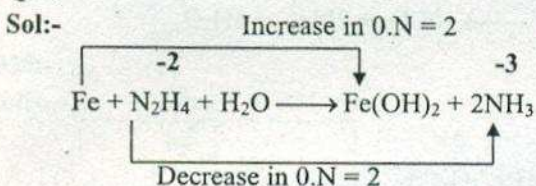
Q19:



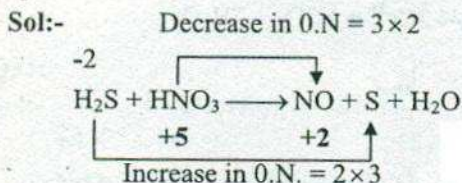
Decrease in O.N. =  $1 \times 4$



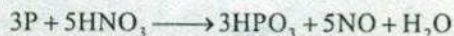
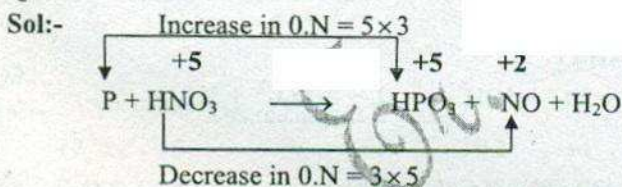
Q20:-



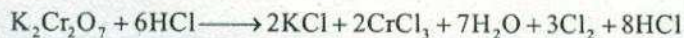
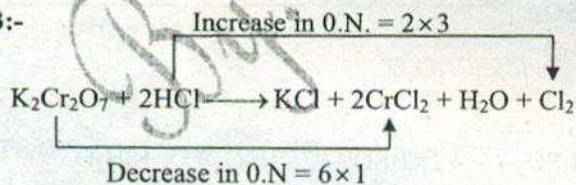
Q21:



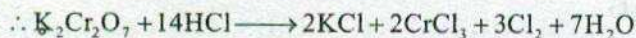
Q22:-



Q23:-



(To balance Cl<sup>-</sup> ion & K)

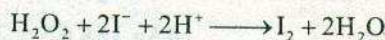
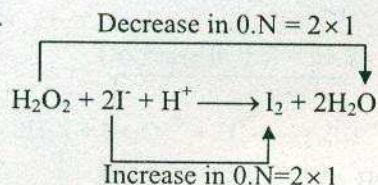






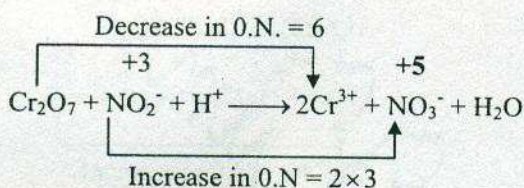
Q29:-

Sol:-



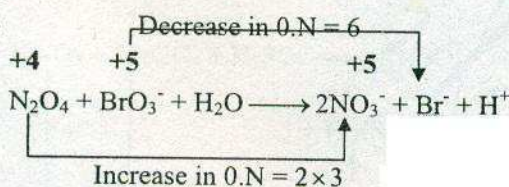
Q30:-

Sol:-



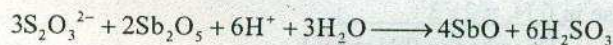
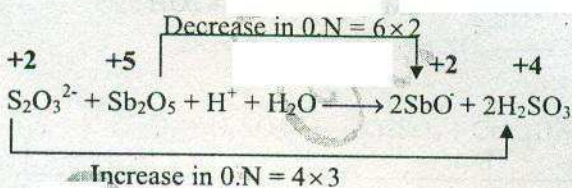
Q31:-

Sol:-

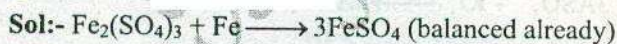


Q32:

Sol:-

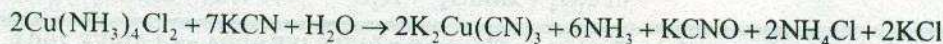
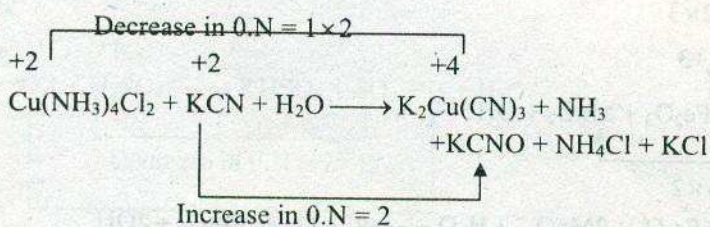


Q33:



Q34:

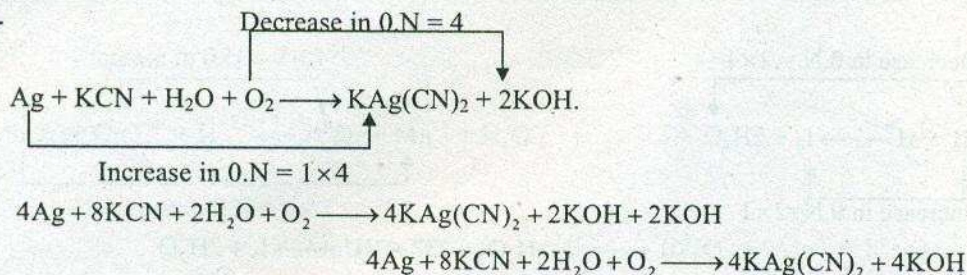
Sol:-





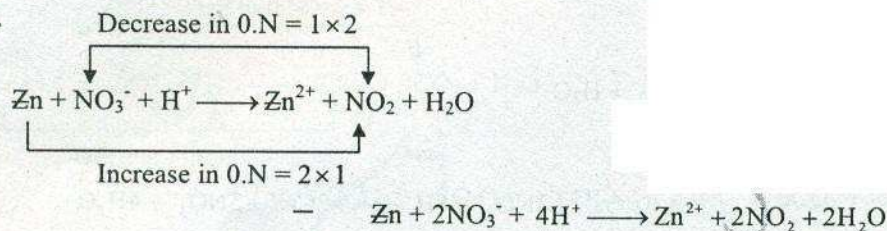
Q35:-

Sol:-



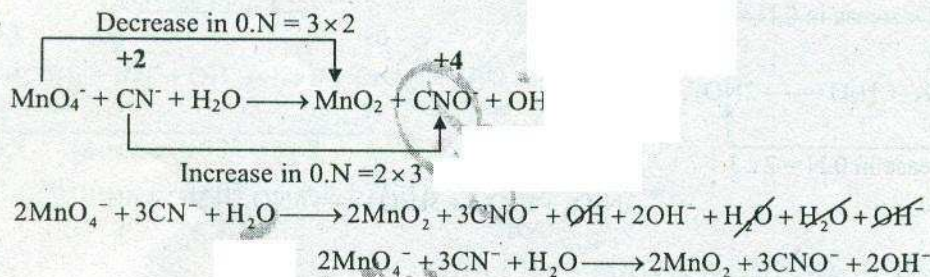
Q36:

Sol:-



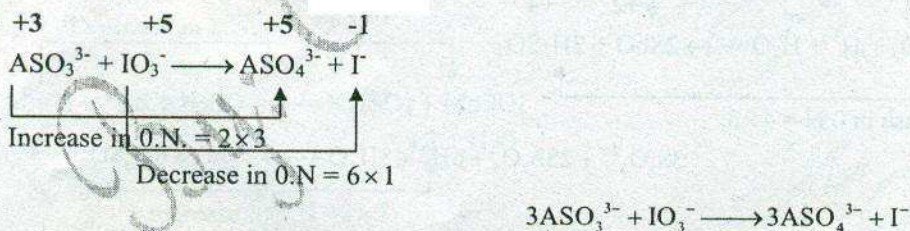
Q37:

Sol:-



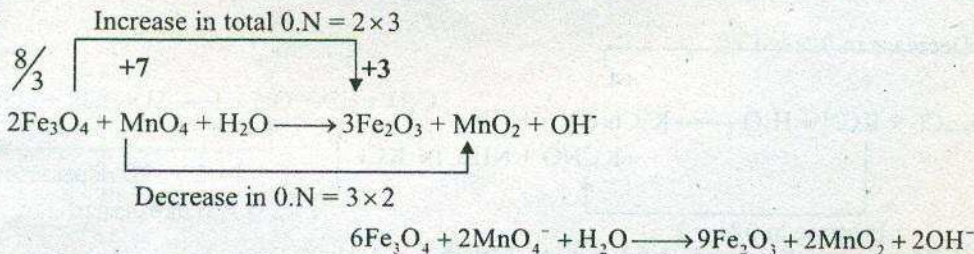
Q38:

Sol:-



Q39:

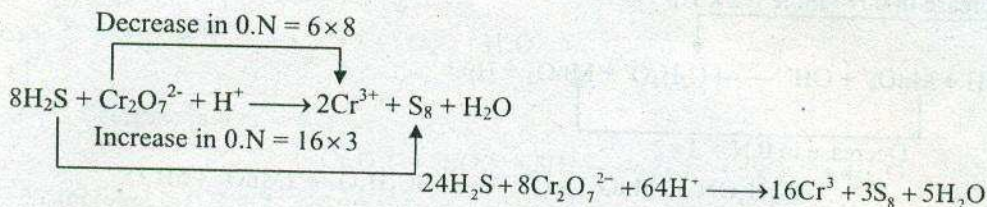
Sol:-





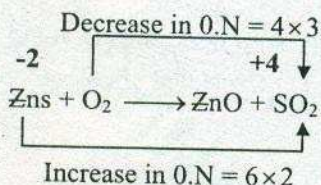
Q40:-

Sol:-



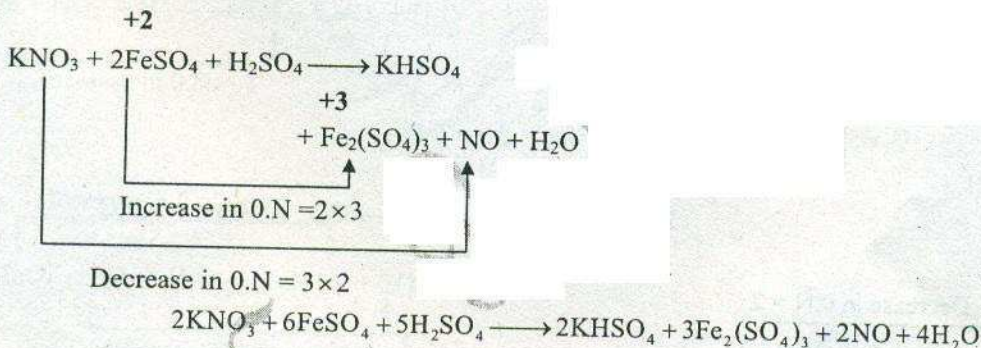
Q41:

Sol:-



Q42:-

Sol:-

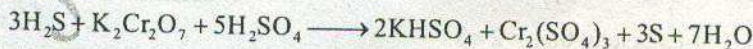


Q43:



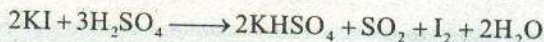
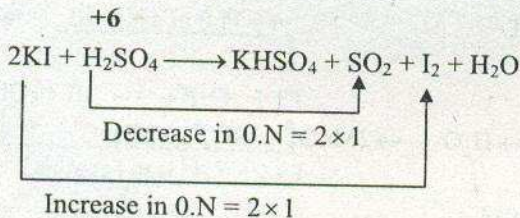
Increase in 0.N. =  $2 \times 3$

Decrease in 0.N. = 6



Q44:-

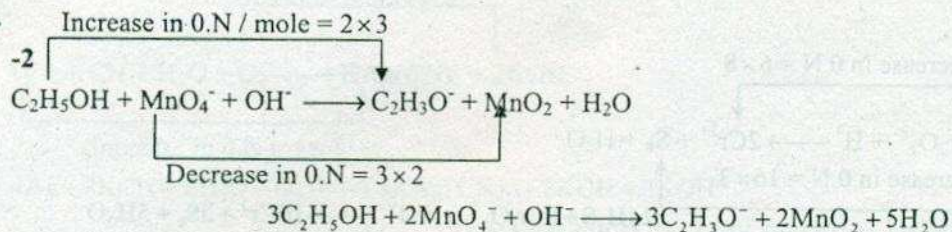
Sol:-





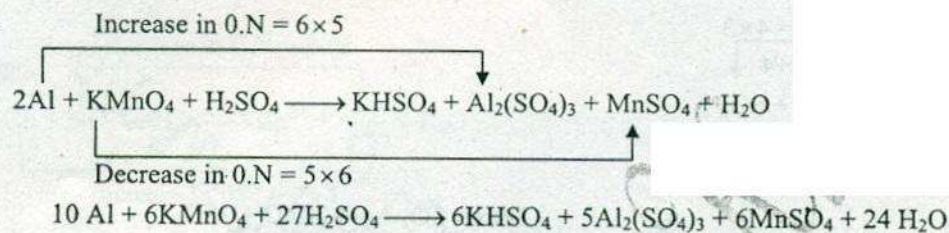
Q45:-

Sol:-



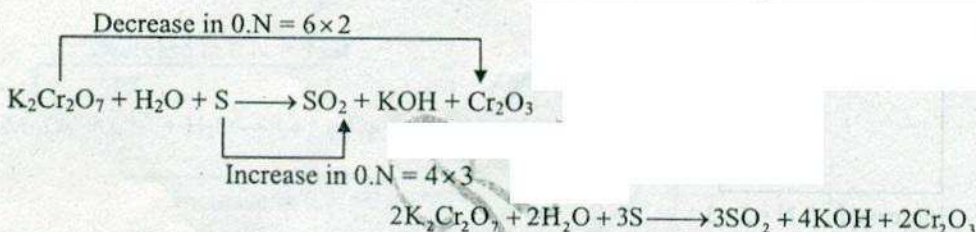
Q46:-

Sol:-



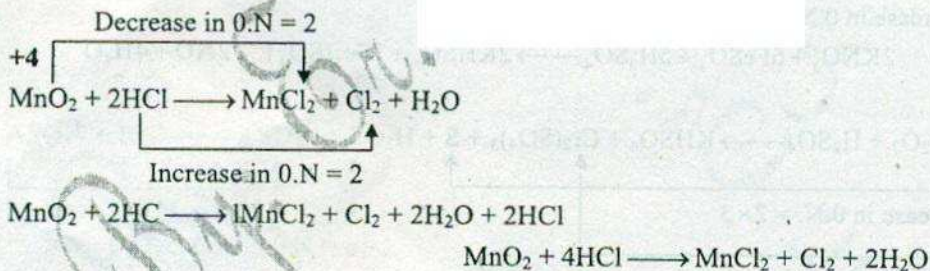
Q47:-

Sol:-



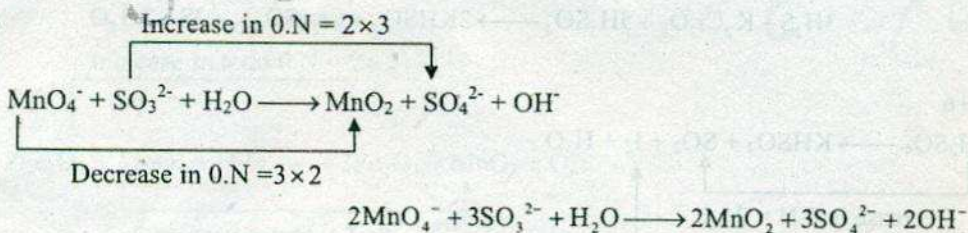
Q48:-

Sol:-



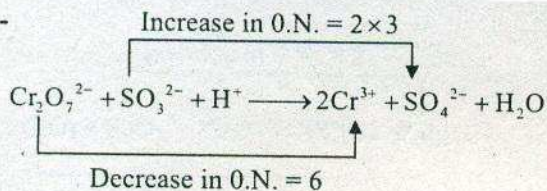
Q49:-

Sol:-

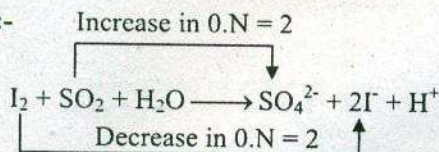




Q50:-

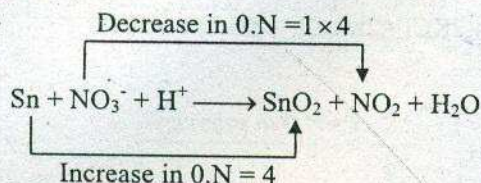


Q51:-



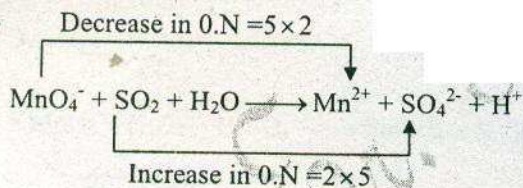
Q52:-

Sol:-

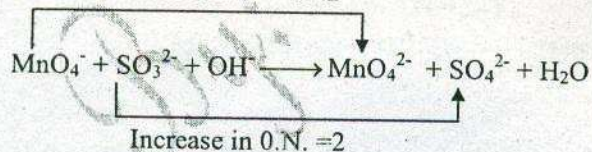


Q53:

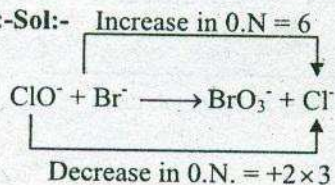
Sol:-



Q54Sol:- Decrease in O.N. =  $1 \times 2$

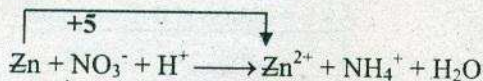


Q55:-Sol:-





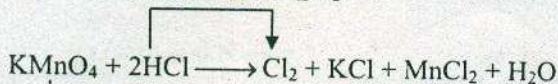
**Q56. Sol:-** Increase in  $0.N = 2 \times 4$



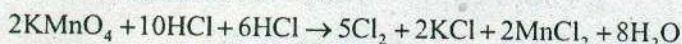
Decrease in  $0.N = 8$



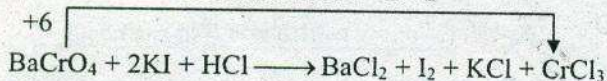
**Q57:-** Increase in  $0.N = 2 \times 5$



Decrease in  $0.N = 5 \times 2$



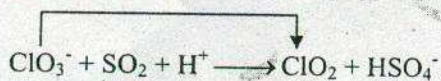
**Q58. Sol:-** Decrease in  $0.N = 3 \times 2$



+H<sub>2</sub>O  
Increase in  $0.N = 2 \times 3$



**Q59. Sol:-** Decrease in  $0.N = 1 \times 2$



Increase in  $0.N = 2$



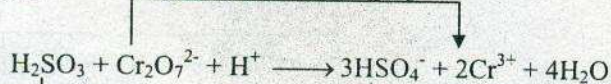
**Q61. Sol:-** Increase in  $0.N = 2$



Decrease in  $0.N = 2$



**Q62 Sol:-** Decrease in  $0.N = 2 \times 6$



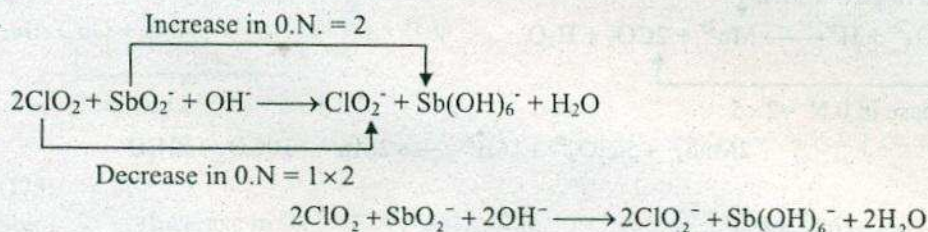
Increase in  $0.N = 2 \times 3$





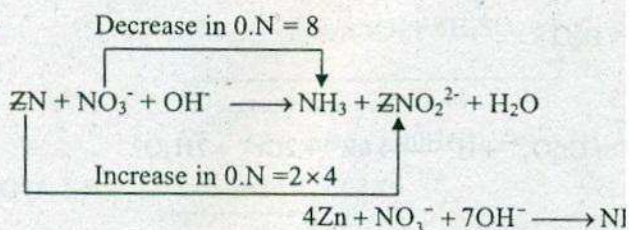
Q63:-

Sol:-



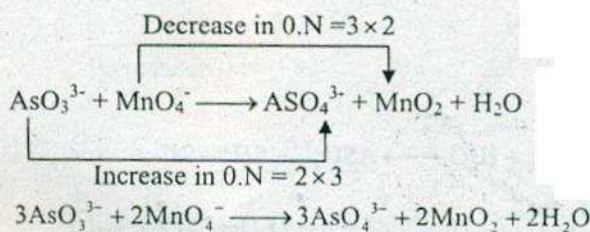
Q64:-

Sol:-



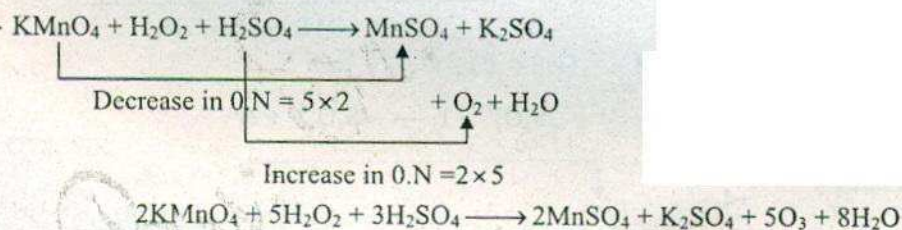
Q65:

Sol:-



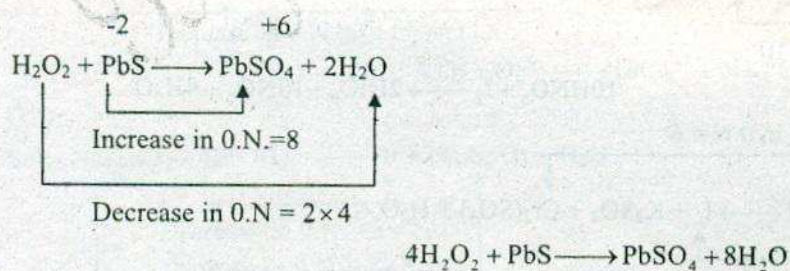
Q66:

Sol:-



Q67:

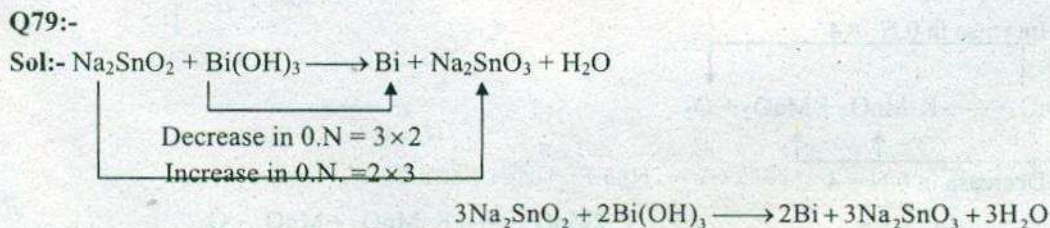
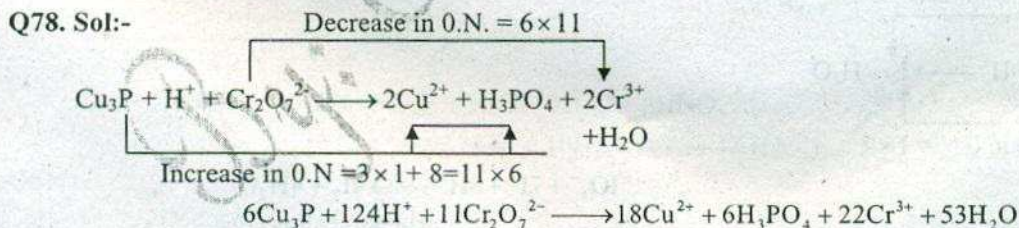
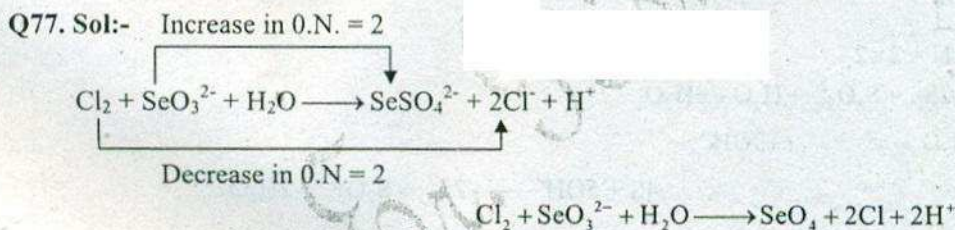
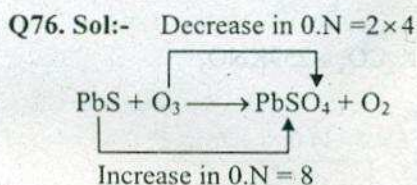
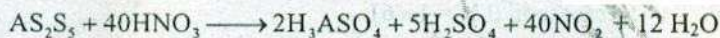
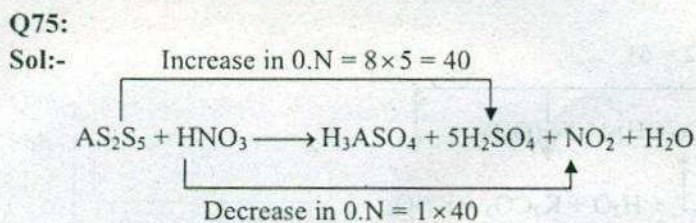
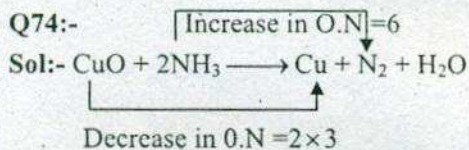
Sol:-













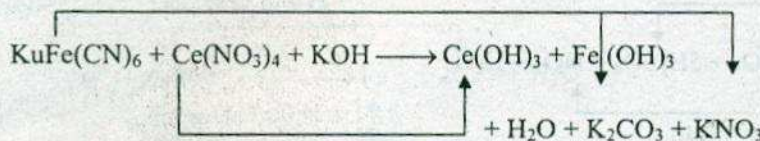
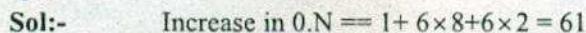
**Q80:**



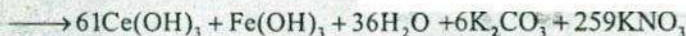
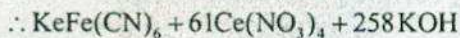
Decrease in O.N = 7



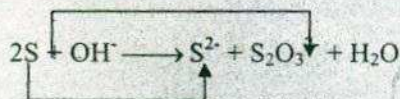
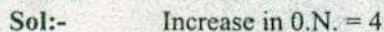
**Q81:**



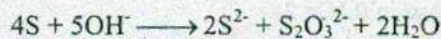
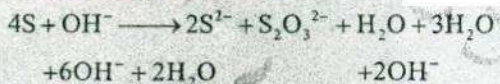
Decrease in O.N =  $1 \times 61$



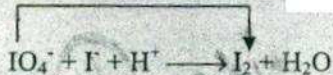
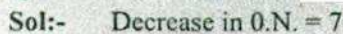
**Q82:-**



Decrease in O.N =  $2 \times 2$



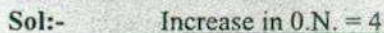
**Q83:**



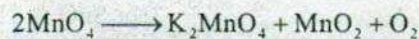
Increase in O.N =  $1 \times 7$



**Q84:**



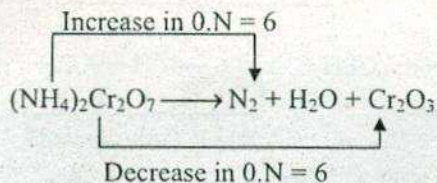
Decrease in O.N = 4



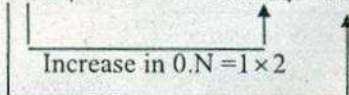


Q85:

Sol:-



Q86:-

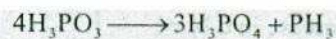
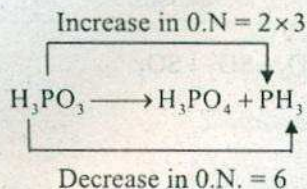


Decrease in O.N. = 2



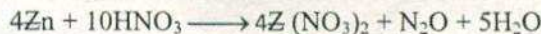
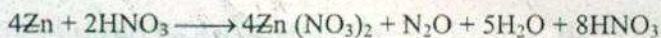
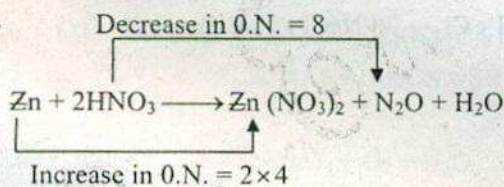
Q87:

Sol:-



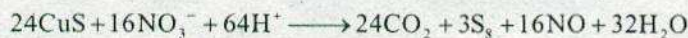
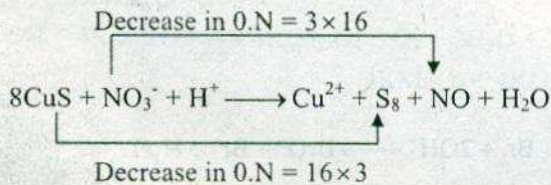
88:-

Sol:-



Q89:-

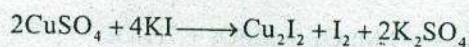
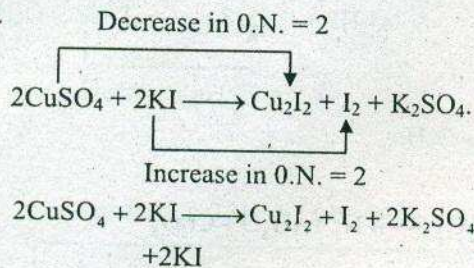
Sol:-





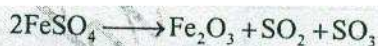
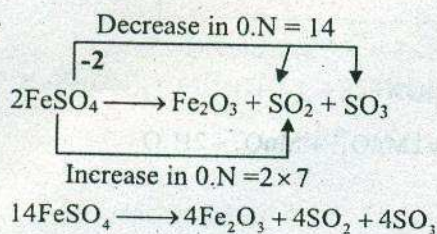
**Q90:**

**Sol:-**



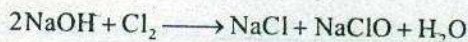
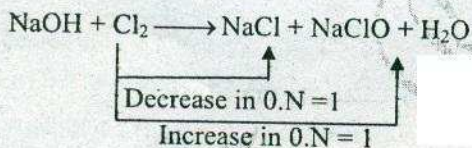
**Q91:**

**Sol:-**



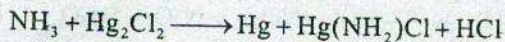
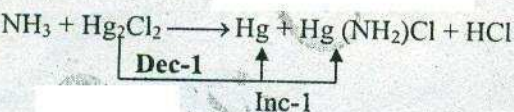
**Q92:**

**Sol:-**



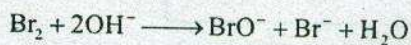
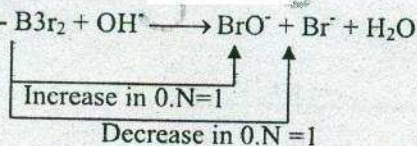
**Q93:**

**Sol:-**



**Q94:-**

**Sol:-**



**Q95:-**

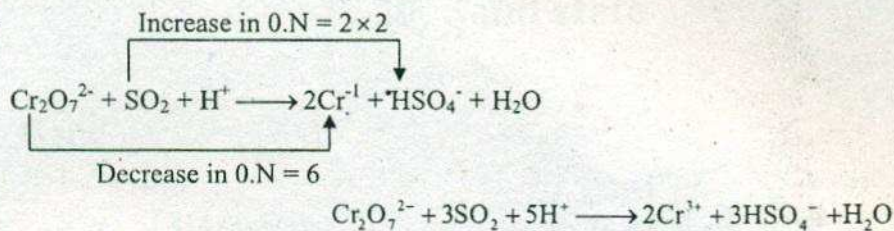
**Sol:-**

Same as 75<sup>th</sup>.

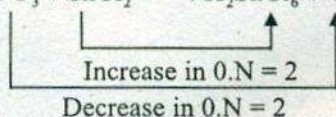


Q96:-

Sol:-

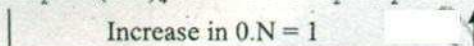
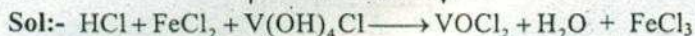


Q97:-



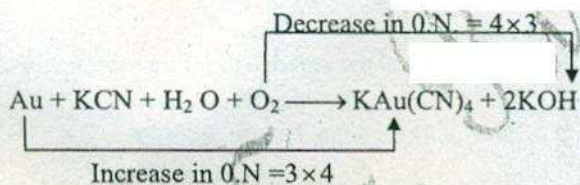
Q98:

Decrease in  $0.N = 1$



Q99:

Sol:-



Q100:-

