

Questions

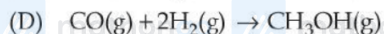
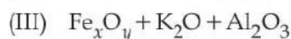
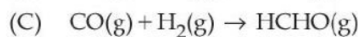
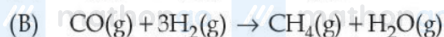
MathonGo

Q1 - 25 July - Shift 1

Match List - I with List - II

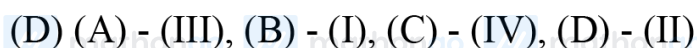
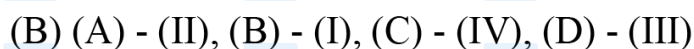
List - I

List - II



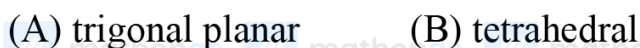
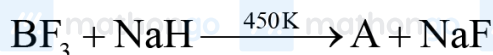
Space for your notes:

Choose the correct answer from the options given below :



Q2 - 25 July - Shift 1

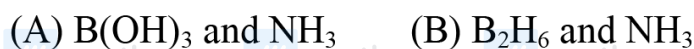
The geometry around boron in the product 'B' formed from the following reaction is



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Q3 - 26 July - Shift 1

Borazine, also known as inorganic benzene, can be prepared by the reaction of 3-equivalents of "X" with 6-equivalents of "Y". "X" and "Y", respectively are :



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Questions

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Q4 - 26 July - Shift 2

The metal that has very low melting point and its periodic position is closer to a metalloid is :

- (A) Al (B) Ga
(C) Se (D) In

Space for your notes:

Q5 - 26 July - Shift 2

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

Assertion A : Boric acid is a weak acid

Reason R : Boric acid is not able to release H^+ ion on its own. It receives OH^- ion from water and releases H^+ ion.

Space for your notes:

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

- (A) Both A and R are correct and R is the correct explanation of A
(B) Both A and R are correct but R is NOT the correct explanation of A
(C) A is correct but R is not correct
(D) A is not correct but R is correct

Q6 - 27 July - Shift 1

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Given below are two statements:

Space for your notes:

Statement I : The chlorides of Be and Al have Cl-bridged structure. Both are soluble in organic solvents and act as Lewis bases.

Statement II: Hydroxides of Be and Al dissolve in excess alkali to give beryllate and aluminate ions.

In the light of the above statements. Choose the correct answer from the options given below.

- (A) Both statement I and Statement II are true
- (B) Both statement I and Statement II are false
- (C) Statement I is true but Statement II is false
- (D) Statement I is false but Statement II is true

Q7 - 27 July - Shift 2

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Questions

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

Space for your notes:

Assertion (A) : Boron is unable to form BF_6^{3-}

Reason (R) : Size of B is very small.

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

(A) Both (A) and (R) are true and (R) is the correct explanation of (A)

(B) Both (A) and (R) are true but (R) is **not** the correct explanation of (A)

(C) (A) is true but (R) is false

(D) (A) is false but (R) is true

Q8 - 29 July - Shift 2

When borax is heated with CoO on a platinum loop, blue coloured bead formed is largely due to :

Space for your notes:

(A) B_2O_3

(B) $\text{Co}(\text{BO}_2)_2$

(C) CoB_4O_7

(D) $\text{Co}[\text{B}_4\text{O}_5(\text{OH})_4]$

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Questions

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Answer Key

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Q1 (C) **Q2 (B)** **Q3 (B)** **Q4 (B)**
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Q5 (A) **Q6 (D)** **Q7 (B)** **Q8 (B)**
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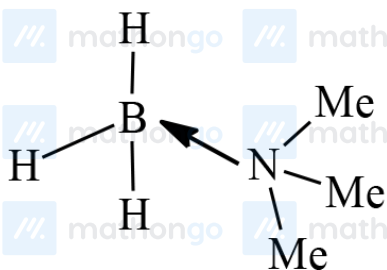
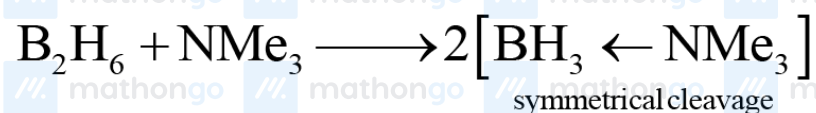
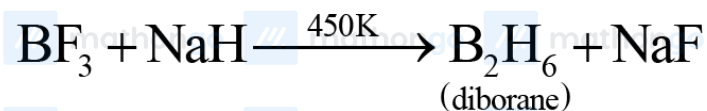
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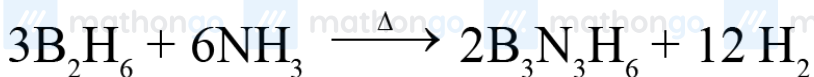
Q1 (C)

Factual

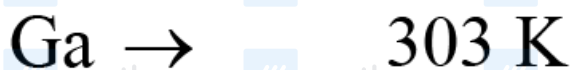
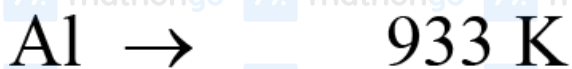
Q2 (B)



Q3 (B)

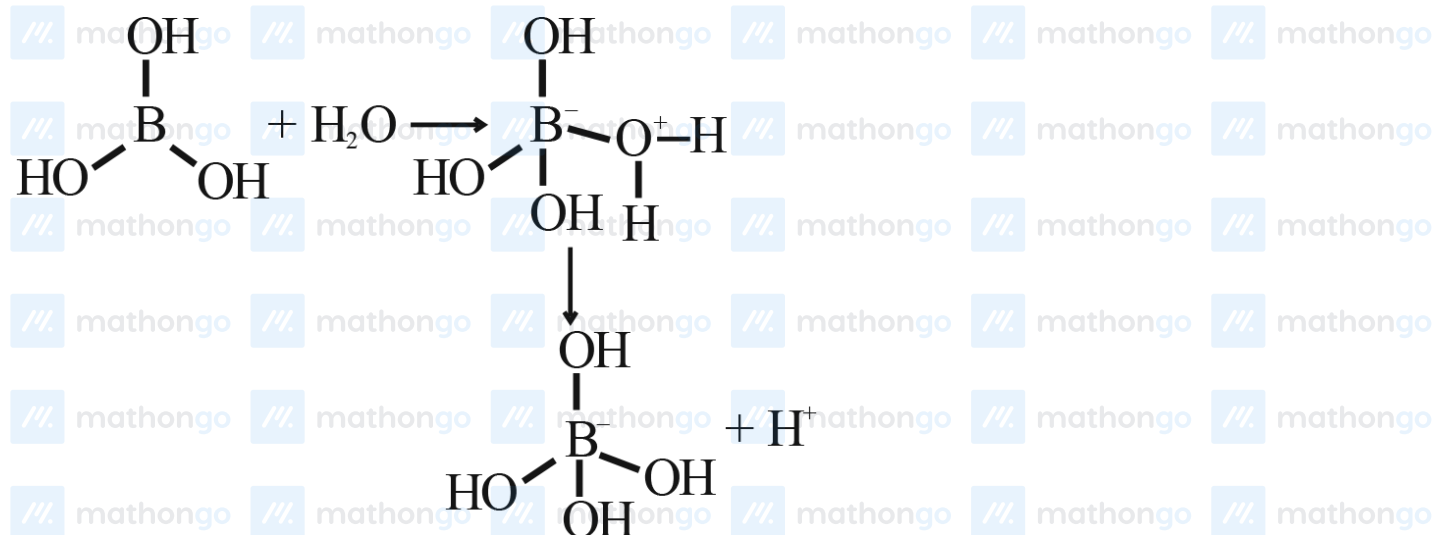


Q4 (B)

Melting point

Q5 (A)

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**Q6 (D)**

Be_2Cl_4 is lewis acid and Al_2Cl_6 has complete octet.

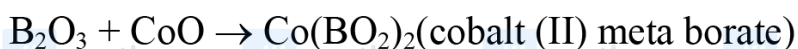
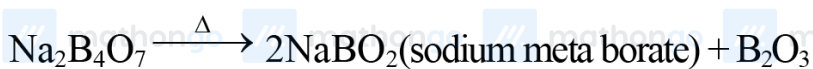
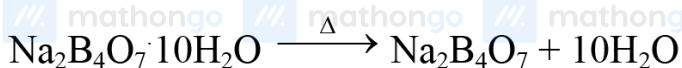
Be and Al are amphoteric metals therefore dissolve in acid as well as alkaline solution and form beryllate and aluminate ions in excess alkali.

Q7 (B)

Assertion (A): True

Reason (R): True but not correct explanation.

Correct explanation: Expansion of octet not possible for 'B'.

Q8 (B)

Blue Bead