



CHEMISTRY

NCERT - FULL MARKS CHEMISTRY(TAMIL)

P-BLOCK ELEMENTS

Questions A Choose The Best Answer

1. The elements of group 13 to 18 of the periodic table are known as

- A. s block elements
- B. p block elements
- C. d block elements
- D. f block elements



2. The general electronic configuration of group 18 elements is

A. ns^2

 $\mathsf{B}.\,ns^2np^1$

$$\mathsf{C.}\,ns^2np^{1-5}$$

D.
$$ns^2np^6$$

Answer:

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3. The most acidic among the following is

A. Bi_2O_3

B. SnO_2

$\mathsf{C}.HNO_3$

D. SO_3

Answer:

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4. The most stable hydride of the following

A. NH_3

$\mathsf{B.}\, PH_3$

$\mathsf{C}.ASH_3$

D. BiH_3

Answer:

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5. The formula of Borax is

A. $NaBO_2$

 $\mathsf{B.}\,Na_2B_4O_7$

$\mathsf{C}.\,H_3BO_3$

D. None of the above

Answer:



6. The general electronic configuration of carbon group elements is

A. ns^2np^6

 $\mathsf{C.}\,ns^2np^1$

 $\mathsf{D.}\, ns^2 np^2$

Answer:



7. The oxyacid of nitrogen which is used in the

manufacture of azo dyes.

A. Contact process

B. Ostwald process

C. Haber's process

D. Linde's process

Answer:

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8. Non - metals are

A. ionic

B. coordinate

C. covalent

D. none of the above

Answer:

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9. Chemicals used in agriculture as fertilizer and pesticides are generally called as.....

A. acidic

B. acidic

C. amphoteric

D. neutral

Answer:

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10. Atomicity of nitrogen is

- A. Various oxygen compounds
- B. Various phosphorus compounds
- C. Various nitrogen compounds
- D. Various sulphur compounds



11. The hydride of V group element which is used in the manufacture of artificial silk

A. Nitrous acid

B. Nitric acid

C. Hyponitrous acid

D. Pernitric acid



12. Which metal is used in manufacturing artificial joints?

A. ammonia

B. stibine

C. phosphine

D. bismuthine



13. Anaesthetic used for minor operation dentistry

A. nitrous oxide

B. nitric oxide

C. nitrous oxide + oxygen

D. nitrogen dioxide



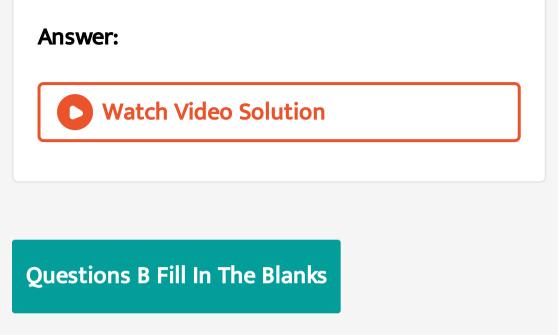
14. The process of transformation was discovered by

A. graphite

B. diamond

C. fullerene

D. carbon black



1. The general electronic configuration of

Boron group elements is_____.

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2. I. The boron occurs mostly as borates.

II. Boron does not react directly with hydrogen.

III. The simplest borane is triborane.

IV. Boron combines with halogen to form

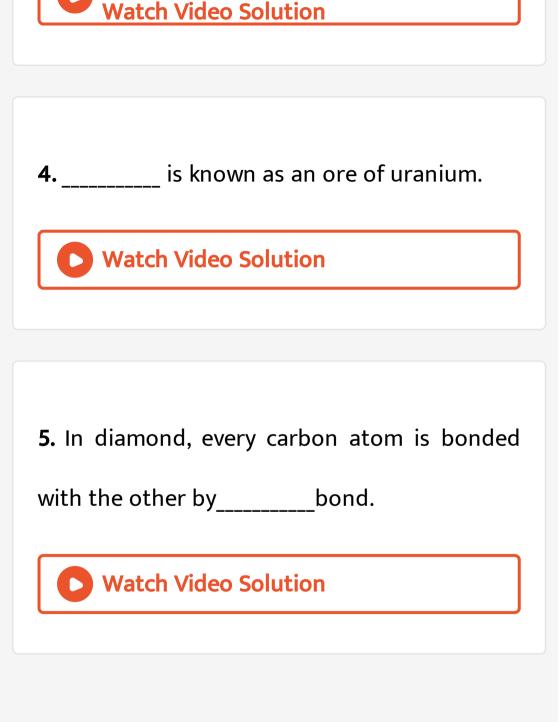
boron trihalides.

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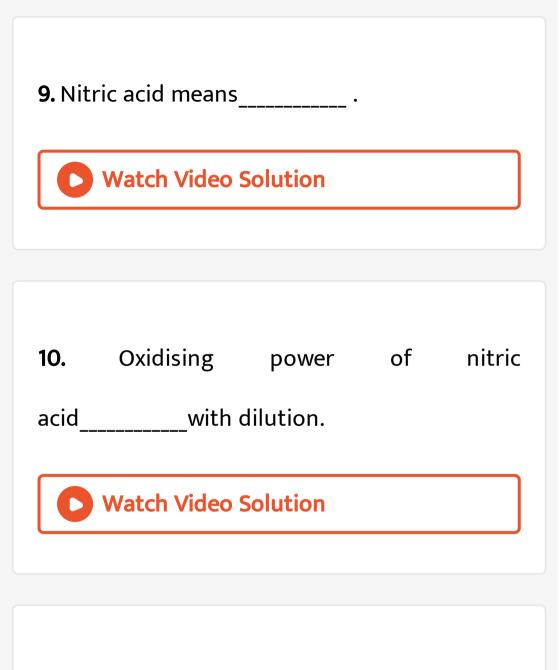
3. How borax bead test is helpful in identifying

basic radicals in qualitative analysis?



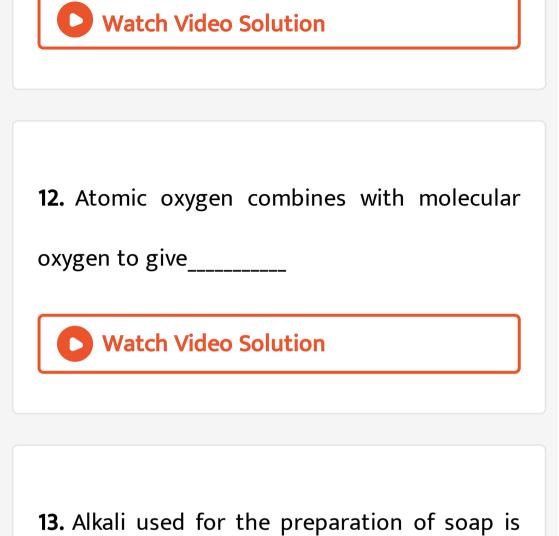


6. C_{60} Buckminister fullerene was nicknamed
as
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7. Carbon monoxide is
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8. Nitrogen was discovered by
O Watch Video Solution

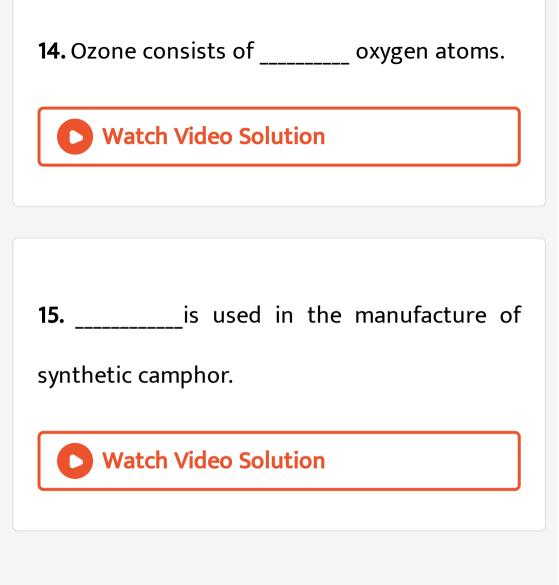


11. Dioxygen is also called as_____

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Questions C Match The Following

Borax bead test

- 1. Copper a.
- 2. Iron
- **1.** 3. Manganese
 - 4. Cobalt
 - 5. Chromium

- a. Blue
 - b. Grey
 - c. Red
 - d. Bottlegreen
 - e. Colorless
 - f. Green

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Borax bead test

- 1. Copper a.
- 2. Iron
- **2.** 3. Manganese
 - 4. Cobalt
 - 5. Chromium

- a. Blue
- b. Grey
- c. Red
- d. Bottlegreen
- e. Colorless
- f. Green

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Borax bead test

- 1. Copper a.
- 2. Iron
- **3.** 3. Manganese
 - 4. Cobalt
 - Chromium 5.

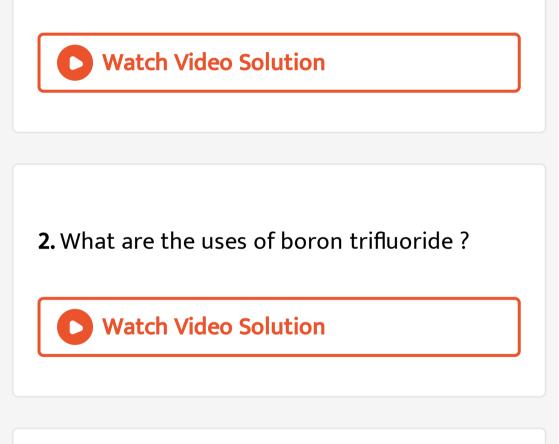
- Blue
- b. Grey
- Red C.
- Bottlegreen d.
- e. Colorless
- f. Green

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Questions D Write In One Or Two Sentence

1. Mention the reasons for the stabilisation of

lower oxidation state of p-block element.



3. Give an example of Microalgae.

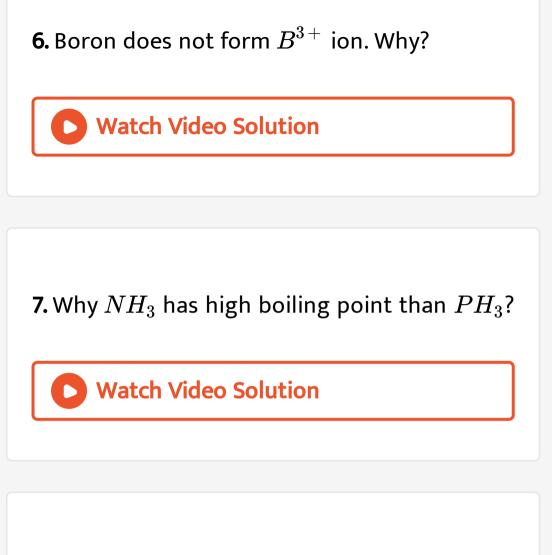
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4. Why diamond is hard compared with graphite?



5. Why alkaline earth metals have higher tendency to form complexes than alkali metals?



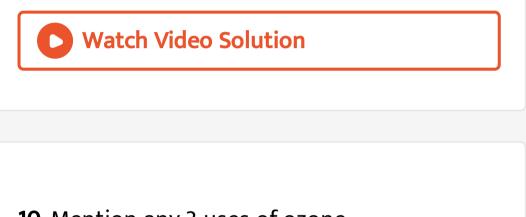


8. Which is insoluble in water?

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9. Which is considered to be "earth's

protective umbrella"?



10. Mention any 3 uses of ozone.



11. What are SNPs? Mention its uses.

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12. What are compound oxides? Give an example.



13. Mention the function of haemoglobin in natural process.



14. What happens when

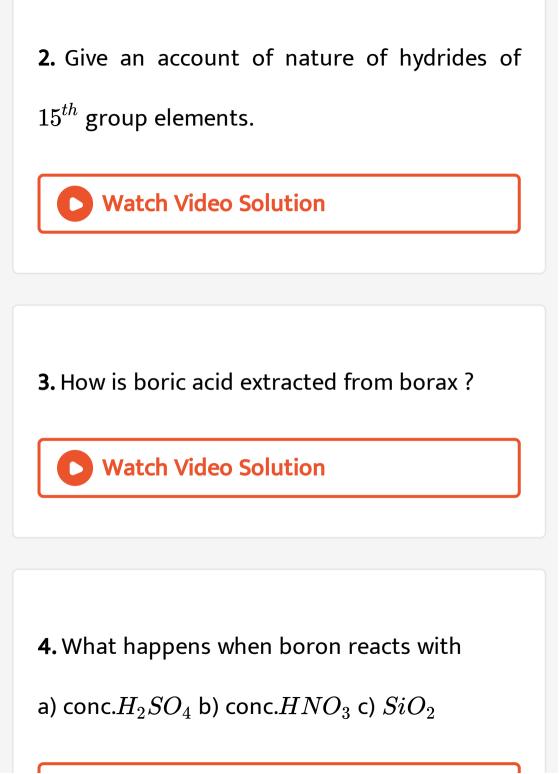
Chlorine reacts with slaked lime.

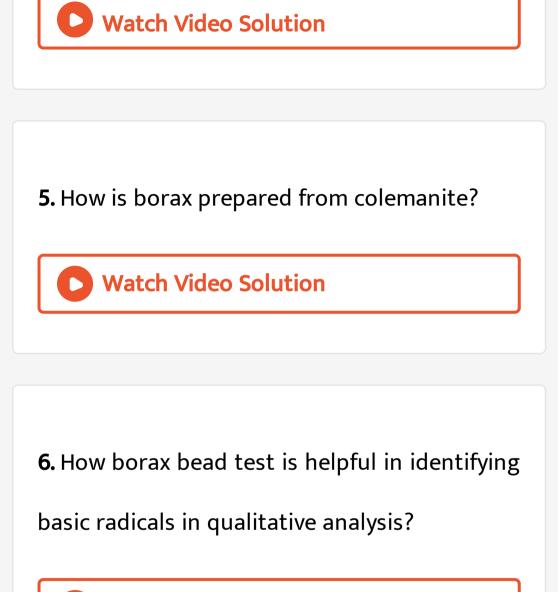
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Questions E Explain Briefly On The Following

1. What is inert pair effect ?

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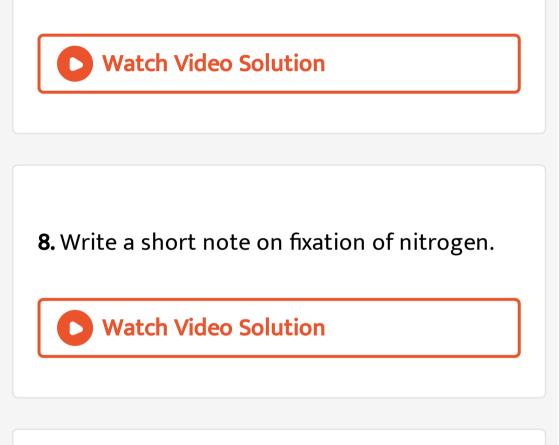




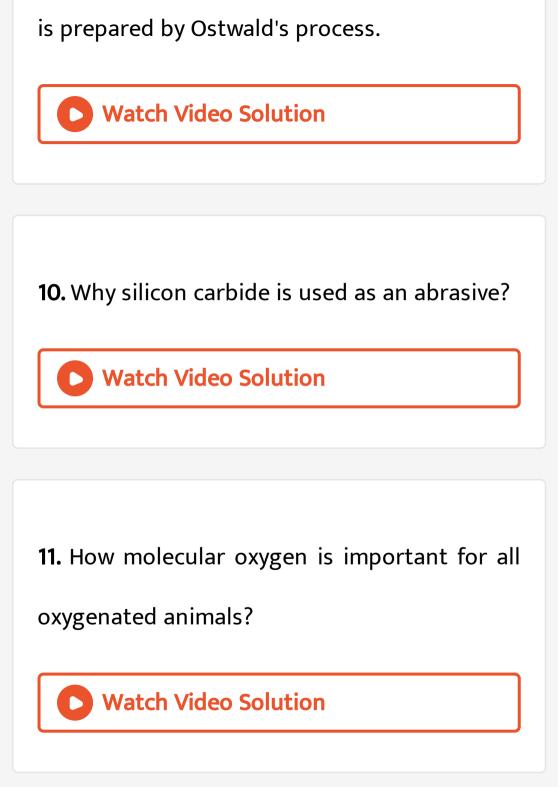




diamond and graphite.



9. Explain the commercial method of preparation of nitric acid. (or) How nitric acid

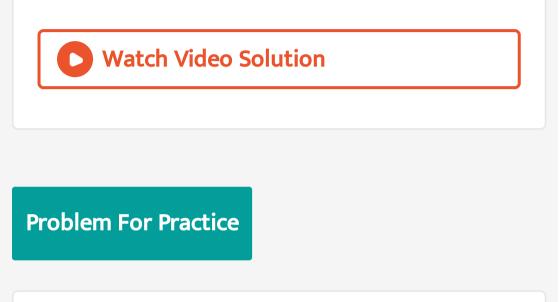


12. How ozone reacts with the following (a) PbS (b) K_2MnO_4 Watch Video Solution

Problem Solution

1. An element occupies group no.13 and period number 2 is an representative element of that group reacts with carbondioxide and forms an oxide (A). (A) reacts with $CuSO_4$ give blue beads (B). Identify the element compound (A)

and (B). Write the reaction.



1. BF_3 reacts with LiH and forms a compound A. The compound A reacts with water to give the compound B. A reacts with ammonia at 390 K and form C. Identify (A), (B) and (C).



2. An element occupies group number 15 and period number 2 reacts with hydrogen under high pressure and in the presence of a catalyst it terms a hydride (A). In presence of excess of air and in the presence of platinum it forms an oxyacid (B). Identify the element, A and B.

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3. An element occupies group No.16 and period

number 2. This element on passing through

silence electric discharge forms (A). (A) also reacts with lead sulphide and forms (B). (A) also reacts with BaO_2 and forms (C). It reacts with H_2O_2 and forms (D). Identify the dement (A), (B), (C) and (D).

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4. An element occupies group No.14 and period number 2 exists in different allotropic forms. One form of this element has lubricating property (A). Another form is the

hardest substance (B). New allotrope of this element is named as `Buckyball' (C) and it is superconducting. Identify the element, (A) (B) and (C).

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