



# **CHEMISTRY**

# **BOOKS - ZEN CHEMISTRY (KANNADA ENGLISH)**

# **CARBON AND ITS COMPOUNDS**

**Question Section In Text Questions** 

1. What would be the electron-dot structure of carbon

dioxide which has the formula of  $CO_2$ ?

Watch Video Solution

2. What would be the electron-dot structure of a molecule

of sulphur which is made up of eight atoms of sulphur?

<b>O</b> Watch Video Solution	
-------------------------------	--

3. Calculated the difference in the formulae and molecular

masses for

- (a)  $CH_3OH$  and  $C_2H_5OH$
- (b)  $C_2H_5OH$  and  $C_3H_7OH$  and
- (c)  $C_3H_7OH$  and  $C_4H_9OH$
- Is there any similarity in these three ?
- Arrange these alcohols in the order of increasing carbon

atoms to get a family . Can we call this family a

homologous series ?





6. What is the formula and the electron-dot structure of

cyclopentane?

Watch Video Solution	

7. Draw the structures for the following compounds .

(i) Ethanoic (ii) Bromopentane

(iii) Butanone (iv) Hexanal

Watch Video Solution

8. Are structure isomers possible for bromopentane?

Watch Video Solution

9. How would you name the following compounds?

 $(i)CH_3 - CH_2 - Br \qquad (ii)H - CH = O \ (iii)H - C = C - egin{smallmatrix} H & H & H & H \ ert & ert & ert & ert & ert & ert \ ert & ert & ert & ert & ert \ ert & ert & ert & ert \ ert & ert & ert & ert \ ert & ert & ert \ ert \$ 



**10.** Why is conversion of ethanol into ethanoic acid an oxidation reaction ?



11. A mixture of oxygen and ethyne is burnt for welding .

Can you tell why a mixture of ethyne and air is not used ?



detergent ?

**15.** People use a variety of methods to wash clothes . Usually after adding the soap, they beat the clothes on a stone, or beat them with a paddle , scrub with a brush , or the mixture is agitated in a washing machine . Why is agitation necessary to get clean clothes?

Watch Video Solution

**Question Section Textual Exercise** 

**1.** Ethane with the molecular formula  $C_2H_6$ has

A. 6 covalent bonds

- B. 7 covalent bonds
- C. 8 covalent bonds
- D. 9 covalent bonds

#### Answer:



2. Butanone is a four-carbon compound with the

functional group

A. Carboxylic acid

B. aldehyde

C. ketone

D. alcohol

#### Answer:



**3.** While cooking , if the bottom of the vessel is getting blackened on the outside, it means that

A. food is not cooked completely

B. the fuel is not burning completely

C. fuel is wet

D. fuel is burning completely

Answer:





6. What is a homologous series? Explain with an example .

**7.** How can ethanol and ethanoic acid be differentiated on the basis of their physical and chemical properties?

Watch Video Solution

**8.** Why does micelle formation take place when soap is added to water? is a micelle formed in other solvents such as ethanol also?

Watch Video Solution

9. Why are carbon and its compounds used as fuels for

most applications ?



11. What change do you observe if you test soap with

litmus paper?



12. What is hydrogenation ? What is its industrial

application ?



13. Which of the following hydrocarbons undergo addition

reaction ?

 $C_2H_6, C_3H_8, C_3H_6, C_2H_2$  and  $CH_4$ 

**Watch Video Solution** 

14. Give a test to differentiate chemically between butter

and vegetable oil.



**15.** Explain the mechanism of cleaning action of soap.



## Zee Additional Questions Section Multiple Choice Questions

**1.** The atomic numbers of four elements A,B,C and D are 6,10,12 and 17 respectively. Which two elements combine to form a covalent compound ?

A. A and D

B. A and C

C. B and D

D. C and D

#### Answer: A





2. A covalent molecule having a triple bond between its

atoms is :

A. oxygen

B. hydrogen

C. nitrogen

D. sulphur

Answer: C



3. Which of the following has double bonds?

A. Ethane and oxygen

B. nitrogen and ethane

C. oxygen and methane

D. ethene and carbon dioxide

Answer: D

**Watch Video Solution** 

4. The first organic compound synthesized by Wohler was:

A. urea

B. glucose

C. uric acid

D. vinegar

Answer: A



5. The pair of elements which shows catenation is

A. silicon and sodium

B. carbon and sulphur

C. carbon and chlorine

D. silicon and sodium



conductor:

A. diamond

B. coal

C. fullerene

D. graphite

Answer: D



7. Buckminster fullerene has ...... carbon atoms .

A. 55

B. 65

**C**. 60

D. 70

Answer: C



**8.** Isomerism is possible if a hydrocarbon has \_\_\_\_\_or

more carbon atoms.

A. 3

B.4

 $\mathsf{C.}\,2$ 

D. 1

Answer: B

Watch Video Solution

9. The general formula of saturated hydrocarbons is

A.  $C_n H_{2n+1}$ 

B.  $C_n H_{2n+2}$ 

 $\mathsf{C.}\, C_n H_{2n}$ 

## D. $C_n H_{2n-2}$

#### Answer: B



**10.** Which of the following compounds is not a hydrocarbon ?

A.  $R-CH_3$ 

- $\mathsf{B.}\,CH_2=CH_2$
- $\mathsf{C.}\,CH_3OH$
- D.  $CH_4$

Answer: C



## 11. The next homologue of $C_5 H_{10}$ is

- A.  $C_5H_{12}$
- $\mathsf{B.}\, C_4 H_8$
- $\mathsf{C.}\,C_4H_9$
- D.  $C_6H_{12}$

Answer: D



**12.** An alkyne among the following is

A.  $C_2H_6$ 

B.  $C_5 H_{10}$ 

 $\mathsf{C.}\, C_3H_4$ 

D.  $C_3H_6$ 

Answer: C

Watch Video Solution

13. The possible isomers for pentane are

A. 3

B.4

 $\mathsf{C.}\,2$ 

D. 6

### Answer: A



**14.** Butanal is organic compound with the functional group

A. alchol

B. ketone

C. aldehyde

D. estar

Answer: C



### 15. The hydrocarbon 2 -methylpropane is an isomer of

A. n-butane

B. isobutane

C. n-propane

D. pentane

**Answer: B** 



**16.** How many hydrogen atoms are present in a hydrocarbon with 50 carbon atoms and one triple bond in it ?

A. 50

B. 100

C. 102

D. 98

Answer: D



**17.** The number of carbon atoms present in the sixth member of alkenes is

A. six

B. five

C. seven

D. four

Answer: C

Watch Video Solution

18. Pantane has the molecular formula  $C_5 H_{12}$ .It has

A. 5 covalent bonds

- B. 12 covalent bonds
- C. 16 covalent bonds
- D. 17 covalent bonds

### Answer: D

Watch Video Solution

## 19. The hydrocarbon that burns with a clean flame is

- A.  $C_4H_{10}$
- B.  $C_{3}H_{6}$

## $\mathsf{C.}\,C_4H_8$

## D. $C_5H_{10}$

### Answer: A



20. Which of the compounds has an aldehyde group ?

A.  $C_5H_8O$ 

B.  $C_5 H_{12} O$ 

 $\mathsf{C.}\, C_5 H_{10} O$ 

D.  $C_5H_9O$ 

Answer: C



**21.** In which of the following compounds is –OH the functional group ?

A. Butanone

B. Butanol

C. butanoic acid

D. butanal

Answer: B



22. Propanone is an organic compound with functional

group as

 $\mathsf{A.}-CHO$ 

B.-CO

C. - OH

D. - COOH

**Answer: B** 



23. Vinegar is a solution of

A. 50% - acetic acid in alcohol

B. 5% - acetic acid in alcohol

C. 5% - 8% acetic acid in water

D. 50% - 60% acetic acid in water

Answer: C

Watch Video Solution

24. Which of the following doesn't undergo a substitution

reaction ?

A.  $C_4H_6$ 

B.  $C_{3}H_{6}$ 

 $\mathsf{C.}\,C_4H_{10}$ 

D.  $C_5H_{10}$ 

Answer: C



**25.** Carbon forms covalent bonds by sharing its four valence electrons with four univalent atoms , e.g, hydrogen . After the formation of four bonds, carbon attains the electronic configuration of

A. Helium

B. neon

C. argon

D. Krypton

Answer: B



26. The compound which gives effervescence with baking

soda solution is

A.  $C_2H_6O$ 

 $\mathsf{B.}\, C_2 H_5 O$ 

 $\mathsf{C.}\, C_2 H_4 O_2$ 

D.  $CH_3OCH_3$ 

**Answer: B** 



## 27. Which of the following mixed with ethanol to denature

it ?

A. oxygen

B. methane

C. acetone

D. methanol

Answer: D



28. An example for detergent is

A. sodium lauryl sulphate

B. sodium palmate

C. Potassium stearate

D. sodium linoleate

Answer: A



29. Commercially available ethanol is known as

A. adulterated spirit
B. rectified spirit

C. absolute alcohol

D. denatured alcohol

### Answer: B



30. The damage of the optic nerve, leading to blindness, is

caused when.....is consumed.

A. ethanol

B. methanal

C. methanol

D. ethanoic acid

Answer: C



**31.** The disease caused when ethanol is consumed for a longer period of time.

A. diabetes

B. cirrhosis

C. cataract

D. arthritis

Answer: A



## 32. The presence of which ion makes water hard?

A. sodium

B. calcium

C. potassium

D. sulphate

Answer: B



**33.** Which among the following has a sweet smell ?

A.  $CH_3OCH_3$ 

# $\mathsf{B.}\, CH_3COCH_3$

## $\mathsf{C.}\,CH_3COOH$

D.  $CH_3OH$ 

Answer: C

Watch Video Solution

34. Conversion of vegetable oil into ghee is an example

for

A. oxidation reaction

B. substitution reaction

- C. reduction reaction
- D. displacement reaction

### Answer: C

**O** Watch Video Solution

## 35. An example for saturated hydrocarbon is

- A.  $C_2H_6$
- B.  $C_{3}H_{4}$
- $\mathsf{C.}\, C_2 H_2$
- D.  $C_2H_4$

Answer: A



**36.** The molecular formula of three carbon compounds which are in homologous series are  $C_2H_6$ ,  $C_3H_8$ ,  $C_4H_{10}$ . The suitable general formula for these compounds is

A.  $C_n H_{2n}$ 

- $\mathsf{B.}\, C_n H_{2n-1}$
- $\mathsf{C.}\, C_n H_{2n-2}$
- D.  $C_n H_{2n+2}$

#### Answer: D



**37.** The functional groups present in propanol and propanal respectively are

A. 
$$-OH$$
 and  $-CHO$ 

$$B. - OH \text{ and } - COOH$$

C. - CHO and - COOH

D. - CHO and -CO

#### Answer: A



Zee Additional Questions Section Very Short Answer Vsa Type Questions 1. Draw the electron-dot structure of a methane molecule,

<b>Watch Video Solution</b>	

2. Why does carbon atom exhibit the property of catenation and from a large number of compounds with other elements ?

Watch Video Solution

3. Which element exhibits the property of catenation ?

Why?

**4.** Name an element other than carbon, which exhibits catenation up to 7-8 atoms. Are these compounds stable ?

**5.** Name the first member of alkynes and write its molecular formula.



**6.** What do you mean by functional groups ? Given examples.

Watch Video Solution

7. Write the formula of the following groups :

(a) aldehyde (b) ketone

Watch Video Solution 8. Write the names of the next homologue of  $CH_3CH_2OH$  and HCOOH. Watch Video Solution

**9.** The molecular formula of A is  $C_{10}H_{18}$  and B is  $C_{18}H_{36}$ .

Name the homologous series to which they belong .

**10.** Why is it not possible to have isomers of methana , ethane, propane?



11. Write the molecular formula of benzene and state the

number of double bonds in its structure.



**12.** Draw the electron-dot structure of  $CH_3CI$ .

13. Write the name and the structure of an aldehyde with

four carbon atoms in its molecule



16. What would be the structure of ethanoic acid which

had the formula  $CH_3COOH$ 



**17.** The formula of citric acid is shown below:

State the name of the functional group in citric acid .

View Text Solution

**18.** Identify the functional group in pentanone

19. Alkanes generally burn with a clean flame . Why?

<b>Watch</b>	Video Solution	
<b>20.</b> Name t	ne gases that are burnt as a mixture fo	or
Weiding.	Video Solution	

**21.** What is esterification?



**22.** Intake of small amount of methanol can be fatal. Comment .

<b>Watch Video Solution</b>
<b>23.</b> What type of bond is present in $F_2$ molecule ?
Watch Video Solution
<b>24.</b> Select saturated hydrocarbon from the following .
$C_3H_6, C_5H_{10}, C_4H_{10}lC_2H_4, C_6H_{14}$

**25.** State the valency of each carbon atoms in

(1) an alkane (2) alkyne .



27. Write the molecular formula of alcohol which can be

derived from butane.



28. Write the name and structure of an alcohol with three

Carbon atoms in its molecule.

<b>Watch Video Solution</b>				
<b>29.</b> What is meant by covalent bond ?				
<b>30.</b> State the part of the soap molecule that attaches				
itself to dirt when soap is dissolved in water				

**31.** Name the lons whose presence makes the water hard.

<b>Vatch Video Solution</b>
<b>32.</b> Draw the electrons dot structure of an alkane having
molecular formula $C_6H_{14}$ .
<b>Watch Video Solution</b>
33. Carbon tetrachloride is not a good conductor of

electricity give reason to justify your answer . .

34. What happens when a small piece of sodium is

dropped into ethanol?

Watch Video Solution **35.** Write the name the following functional group -OHWatch Video Solution **36.** Name the process of converting vegetable oil to vegetable ghee.



37. Write the formula of functional group

(a) alcohol (b) aldehyde .



39. Write the molecular formula and structure formula of

an alkene having five carbon atoms.



Zee Additional Questions Section Short Answer Sa Type Questions

1. Carbon is a versatile element. Justify.

Watch Video Solution

2. Carbon (group 14), an element in the periodic table ,

forms compound with many elements . Write the example

of a compound formed with

(a) chlorine (group 17) (b) oxygen (group 16)

**3.** In the electron-dot structure, the valence-shell electrons are represented by crosses or dots.

(a) The atomic number of chlorine is 17. Write its electronic configuration .

(b) Draw the electron-dot structure of a chlorine molecule.



4. The general formula of two specific groups of saturated

and unsaturated hydrocarbons is  $C_n H_{2n}$  . Write the

structure of the number of each group when n = 3.

**5.** Write the molecular, electron-dot , and structural formula of ethyne.

<b>O</b> Watch Video Solution	

6. Classify the following into two homologous series and

name them.

 $C_3H_4, C_3H_6, C_4H_6, C_4H_8, C_5H_8, C_5H_{10}$ 

Watch Video Solution

7.  $C_3H_6, C_4H_8$  and  $C_5H_{10}$  belong to the same

homologous series .

a] Why is the melting point of CH higher than C,H,?

b] Arrange these hydrocarbons in order of their

increasing boiling point



**8.** An aldehyde and a ketone can be represented by the same molecular formula, say  $C_3H_6O$ . Write their structures and name them. State the relation between the two in the language of science.

Watch Video Solution

**9.** Unsaturated hydrocarbons contain multiple bonds between the two carbon atoms and show addition

reactions. Give the test to distinguish ethane from ethene.

Watch Video Solution

**10.** How do you differentiate between saturated and unsaturated hydrocarbons with the help of combustion reactions?



**11.** Name the functional groups present in the following compounds:

 $\begin{array}{ll} (a) CH_3 COCH_2 CH_2 CH_2 CH_3 & (b) CH_3 CH_2 CH_2 COOH \\ (c) CH_3 CH_2 CH_2 CH_2 CHO & (d) CH_3 CH_2 OH \end{array}$ 



**12.** How can you convert methane into chloroform by a substitution reaction? Explain with the help of a chemical equation.

|--|

- 13. What happens when
- a) ethanol is burnt in air and
- b) ethanol is oxidized? Write the corresponding equations.



**14.** What do you observe when you drop a piece of sodium into ethanol? Name the gas evolved. How do you test this gas? Write the chemical equation for the reaction.

Watch Video Solution

**15.** How is glacial acetic acid different from acetic acid given in a lab? Write its one characteristic which gave it its name.



16. What is saponification?

**17.** List out any two problems that arise due to use of detergents instead of soaps.

**Watch Video Solution** 

**18.** Why are detergents better cleansing agents than soaps? Explain.

Watch Video Solution

**19.** Explain substitution reaction in hydrocarbons with an

example.

Watth	VILLO	JUILIUI	

**20.** Differentiate between addition reaction and substitution reaction.

Watch Video Solution

**21.** What is structural isomerism? Draw isomers of pentane.

**Watch Video Solution** 

**22.** Draw the structure of the following compounds and identify the functional group present in them.

(i) Butanoic acid (ii) Bromopropane (iii) Butyne



**25.** State any three physical properties of carbon compounds.



**26.** State the reason why carbon forms a covalent compound and  $\operatorname{not}C^{4+}$  and  $C^{-4}$ . Also give reasons why covalent compounds are bad conductors of electricity and have law melting and low boiling points.



27. Give the structural difference between saturated and

unsaturated hydrocarbons with an example each.



ethane, propane, and butane.



**30.** The general formula of three compounds A,B and C is

 $C_n H_{2n}$ , B has the highest boiling point , and C has the

lowest boiling point .

(a) Mention the type of compounds A,B and C.

(b) Which of them has the minimum number of carbon atoms?

(c) Name the homologous series to which they belong.



31. Name the functional group present in each of the

following compounds:

(a)HCOOH  $(b)C_2H_5CHO$   $(c)CH_3COCH_3$ 



**32.** Write the molecular formula of two consecutive members of the homologous series of aldehydes. State which parts of these. Compounds determine their physical and chemical properties.

Watch Video Solution

**33.** State the meaning of a functional group in a carbon compound. Write the functional group present in ethanol and ethanoic acid and also draw their structures.



34. Define a homologous series of carbon compounds, List

any two characteristics of a homologous series.



**35.** Draw the possible isomers of the compound with molecular formula  $C_3H_6O$  and also give their dot structures.

Watch Video Solution

36. Draw the structure of benzene and cyclohexane. Which

one is a saturated hydrocarbon ?

**37.** What are structural isomers ? Draw two structural isomers of butane.

**Watch Video Solution** 

38. What are structural isomers? Name the first member

of alkanes that show structural isomerism.

Watch Video Solution

**39.** Which category of compounds is formed when one hydrogen atom of an alkane molecule is replaced by a hydroxyl group ? Name the functional groups in the
following compounds:

(a) RCOOH (b) RCOOR



**40.** (a) Which of the following burn with a yellow flame:  $C_2H_5OH, C_2H_4, \text{ or } C_2H_6$  ?

(b) Write a balanced chemical equation to show the burning of ethanol in oxygen .

(c) Name an oxidizing agents which can convert ethanol into ethanoic acid.



**41.** An organic compound A on heating with concentrated sulphuric acid forms a compound B which on addition of the mole of hydrogen in presence of Ni forms a compound C. One mole of compound C on combustion forms two moles of  $CO_2$  and 3 moles of  $H_2O$ . Identify the compounds A,B and C.

Watch Video Solution

**42.** A cyclic compound 'X' has the molecular formula CH. It is an unsaturated compound and burns with a sooty flame. Identify 'X' and write its structural formula. Is 'X' more reactive than its saturated homologue and if so,

why?



**43.** Two carbon compounds A and B have the molecular formula CH, and C,H, respectively. Which one of the two is most likely to show addition reaction? Justify your answer. Explain with the help of a chemical equation how an addition reaction is useful in the vegetable-ghee industry.



**44.** Ethyl ethanoate smells like pears and is used for flavouring sweets.

a] Write the chemical formula of ethyl ethanoate.

b] Write the chemical reaction between ethanol and

ethanoic acid in the presence of sulphuric acid.

c] Suggest the function of sulphuric acid in the reaction.



Watch Video Solution



**49.** Name the following compound :

$$(iii) H - \overset{O}{C} - OH$$
  
Watch Video Solution
  
50. Complete the following reaction and the main product formed in each case:
  
(i)  $CH_3COOH + NaOH \rightarrow \dots + \dots$ 
  
(ii)  $C_2H_5OH + O_2 \rightarrow \dots + \dots$ 

**51.** Name the compound formed where ethanol is heated is excess of concentrated sulphuric acid at 443 K. Also write the chemical equation of the reaction stating the role of concentrated sulphuric acid in it. What would happen if hydrogen is added to the product of this reaction in the presence of a catalyst such as potassium or nickel?

Watch Video Solution

**52.** i) Name the property of ethanol which makes it useful in medicines,

ii) Name the organic compound which is used in pickles.

Mention its composition.

iii) Mention any two uses of alcohol in medicine.



- **53.** Write the structural formula and IUPAC name of the following
- i) A carboxylic acid with 4 carbon atoms
- ii) An alkyne with three carbon atoms
- iii) An alcohol having one carbon atom



54. X' is a compound used in cough syrups and in many tonics. It is soluble in *H2O*i) Name the compound X. Write its chemical forumula.

ii) Which gas is evolved when compound X reacts with Sodium? How will you test the chemical equation involved in the reaction of X with sodium. iii) Complete the following equation for X and identify Y.

 $X \stackrel{\mathrm{heat}}{\longrightarrow} Y.$ 



**55.** Some esters are added to food items for special smells. An ester can be made from ethanol and ethanoic acid

i] Name the ester obtained in the reaction that takesplace in the presence of concentrated sulphuric acid.Write the chemical equation.

ii] Name the process.



**56.** Explain the addition and substitution reaction with the help of examples.  $C_2H_6$  undergoes substitution reaction but not addition reaction. Why?

Watch Video Solution

Zee Additional Questions Section Long Answer La Type Questions

**1.** An organic compound A of molecular formula  $C_2H_4$  on reduction gives another compound B of molecular formula  $C_2H_6$ . B on chlorination in the presence of sunlight gives C of molecular formula  $C_2H_4CI$ .

a) Name the compounds A, B, and C.

b] Write the equation for the conversion of A to B and

name the type of the reaction.



**3.** A gas is evolved when sodium carbonate reacts with propanoic acid. Write the balanced chemical equation between the two given reactants. Show the acidic nature of propanoic acid by any two methods.

Watch Video Solution

4. a] Write the chemical name of absolute alcohol. b] Identify A, B, X, and Y in the reaction sequence: i]  $CH_3CH_2OH \xrightarrow{KMnO_4 + KOH} A + H_2O$ ii]  $CH_3CHOH + A \xrightarrow{\text{conc.} H_2SO_4} B + H_2O$ iii]  $B + NaOH \rightarrow X + CH_3CH_2OH$ iv]  $A + NaHCO_3 \rightarrow CO_2 + Y + H_2O$ .



- **5.** Give reasons:
- a) Pure ethanoic acid is known as glacial acetic acid.
- b) Ethanol is used as an antifreeze in car batteries.
- c) Ethanol mixed with methanol is known as denatured alcohol.
- d) Oxyacetylene flame is used for welding.
- e) Gasoline is used as a fuel in western countries.



**6.** A compound X is formed by the reaction of a carboxylic acid  $C_2H_4O_2$  and an alcohol in the presence of a few drops of sulphuric acid. The alcohol on oxidation with

alkaline potassium permanganate followed by acidification gives the same carboxylic acid as used in this reaction. Give the names and structures of the a) carboxylic acid

b alcohol and

c) the compound X. Also write the reaction.



7. A compound C [molecular formula  $C_2H_4O_2$ ] reacts with Na. metal to form a compound R and evolves a gas which burns with pop sound. Compound C on treatment with alcohol A in the presence of an acid forms a sweetsmelling compound S [molecular formula  $C_3H_6O_2$ ]. On addition of NaOH to C, it also gives R and water. S on treatment with NaOH solution gives back Rand A.

Identify C, R, A, and S and write the reactions involved.



8. State the reason why carbon forms a covalent compound and  $\operatorname{not} C^{4+}$  and  $C^{-4}$ . Also give reasons why covalent compounds are bad conductors of electricity and have law melting and low boiling points.

## Watch Video Solution

**9.** Define structural isomer and draw the isomeric structures of butane. Compare the structure of benzene and cyclohexane, by drawing them.



**10.** Describe the addition reaction of carbon compounds with its application. State the functions of catalyst in this reaction. How this reaction is different from a substitution reaction? Explain with example.

Watch Video Solution

**11.** i] Give a chemical test to distinguish between saturated and unsaturated hydrocarbon.

ii] Name the product formed when ethane burns is air.Write the balanced chemical equation for the reaction showing the types of energies liberated. iii] Why is the reaction between methane and chlorine in the presence of sunlight considered a substitution reaction?



## Activity

- **1.** take some carbon compounds (naphthalene, camphor, alcohol) one by one on a spatula and burn them
- \* observe the nature of the flame and note whether smoke
- is produced
- \* place a metal plate above the flame . Is there a deposition on the plate in case of any of the compounds ?

## Watch Video Solution

2. Light a Bunsen burner and adjust the air hole at the base to get different types of flames / presence of smoke when do you get yellow sooty flame ?

when do you get a blue flame ?

