



# CHEMISTRY

## BOOKS - CAMBRIDGE CHEMISTRY (KANNADA ENGLISH)

### MOST LIKELY QUESTION PAPER - 9

Mcqs

1. Part of the flower that devlops into fruit and  
part the seed that devops into root

respectively are

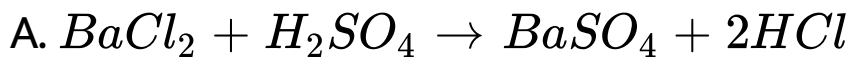
- A. Ovary and pumule
- B. Plumule and radicle
- C. Ovary and radicle
- D. Ovary and ovule

**Answer: C**

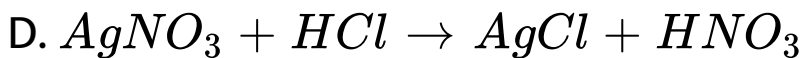
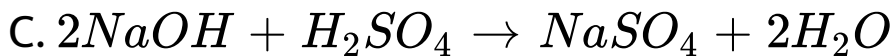
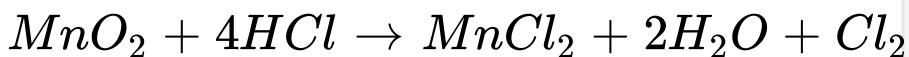


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2. The chemical equation that represents neutralization reaction among the following is



B.



**Answer: C**



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3. The action of bile can be termed as :

A. Esterification

B. Hydrogenation

C. Oxidation

D. Emulsification

**Answer: D**



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4. Which of the following are environment friendly practies ?

A. Carrying cloth - bags to put purchases

while shopping.

B. Switching of unnecessary light & fans

C. Walking to school instead of getting

your mother to drop you on her scooter

D. All the above

**Answer: D**



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5. Bauxite is an ore of which metal

A. Iron

B. Aluminium

C. Cooper

D. Tin

**Answer: B**



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6. The frequency of power supply used in India

A. 70HZ

B. 60HZ

C. 50HZ

D. 30HZ

**Answer: C**



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7. On passing excess of  $CO_2$  gas in an aqueous solution of calcium carbonate milkiness of the solution

A. Persists

B. Fades

C. Deepens

D. Disappears

**Answer: B**



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8. Which of the following is a plant hormone?

A. Thyroxin

B. Cytokinin

C. Insulin

D. Oestrogen

**Answer: B**



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1. State Ohm's law.



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2. Why does a ray of light bend when it travels from one medium into another ?



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3. What is mutation ?



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4. Why do raw bread taste sweeter on mastication ?



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5. Why does a copper vessel develop with green coating in rainy season ?



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6. Will current flow more easily through a thick wire or a thin wire of the same material, when connected to the same source? Why?



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7. Why does distilled water not conduct electricity whereas rain water does ?



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8. What is reflex are ?



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9. An electric bulb of  $200\Omega$  draws a current of 1 ampere. Calculate the power of the bulb. The potential difference at its ends and the energy in kwh consumed in burning it for 5h.



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**10.** What are structural isomers? Name the first member of alkanes that shows structural isomerism.



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**11.** Draw the circuit symbols of the following

(i) Variable resistances

(ii) Wire crossing without joining.



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**12.** Describe how hydro-energy can be converted into electrical energy.



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**13.** Explain how the tidal energy is harnessed and write one limitation of the use of tidal energy.



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**14.** Draw a diagram of excretory system in human beings label the following parts.

(i) Urethra

(ii) Left renal vein



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**15.** Draw the ray diagram showing the position of the object and image to get real the inverted image, whose size is same as the object using convex lens.







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**16.** Why must we conserve our forest ?

List any two causes for deforestation to take place.



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**17.** Give reason :

(i) "Alloys of iron are more useful when compared to pure iron"

(ii) Aluminium oxide is called amphoteric oxide



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**18.** Metals are regarded as electropositive elements

(ii) Articles of aluminium do not corrode even though aluminium is an active metal.



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**19.** (a) Which disease is caused in human beings due to depletion of ozone layers in the atmosphere.

(b) What step is being taken to limit the damage to the ozone layer.



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**20.** How does the electronic configuration of an atom of an element related to its position

in the modern periodic table ? Explain with one example.



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**21. (i)** How does the electronic configuration of an atom relates to its position (period and group) in the modern periodic table ?

(ii) Would you place the two isotopes of chlorine, Cl -35 and Cl -37, in different slots because of their different atomic masses or in

the same slot because their chemical properties are the same? Justify your answer.



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**22.** What is meant by electric current?

Name and define its SI unit. In a conductor electrons are flowing from B to A. What is the direction of conventional current? Give justification for your answer.



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**23.** Write two points of difference between electric energy and electric power

Out of 60W and 40W lamps which one has higher electrical resistance when in use.

What is the commercial unit of electric energy? Convert it into joules.



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**24.** Draw the diagram of arrangement of the apparatus to show the reaction of zinc granules with blue sulphuric acid and testing

hydrogen gas by burning. Label the following parts :

(i) Test tube (ii) Soap solution.



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**25.** What is Tyndall effect? What is its cause ?

Name two phenomena observed in daily life based on Tyndall effect.



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26. (a) What is myopia ? State the two causes of myopia

(b) Why is the normal eye unable to focus on an object placed within 10 cm from the eye?



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27. Draw a diagram of human brain label the parts.

(i) Cranium

(ii) Pituitary gland







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28. (a) State in brief the functions of the following organs in the human female reproductive system: Ovary, Fallopian tube.

(b) What is menstruation? Why does it occur?



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29. Name the metal which reacts with a very dilute  $HNO_3$  to evolve hydrogen gas.



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**30.** Define genetics what is the contribution of Mendel in the field of genetics?



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**31. a)** what is meant by analagous organs ?

**b)** Define variation in relation to a species why is variation beneficial to the species .



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**32.** Stars appear to be twinkling but planets do not twinkle. Why? Explain why the colour of the clear sky during day appears blue and during sunset appears red.



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**33.** Explain the following reactions with one example for each giving relevant chemical equations : (i) Hydrogenation reaction,  
(ii) Oxidation reaction,

(iii) Substitution reaction,

(iv) Saponification reaction.



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

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



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**35.** How are fats digested in our bodies ?

Where does this process take place ?



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**36.** What do you mean by a precipitation reaction ? Explain by giving examples.



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**37.** What are magnetic field lines ? How is the direction of a magnetic field at a point determined ?



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