



CHEMISTRY

BOOKS - OSWAAL CHEMISTRY

(KANNADA ENGLISH)

SSLC KARNATAKA JUNE 2020 CLASS -X

I Choose The Correct Answer Write The Complete Answer Along With Its Letter Of Alphabet

1. The inner surface of solar cooker is coated with black paint to:

- A. absorb more heat
- B. reflect light
- C. prevent rusting
- D. converge the light rays.

Answer:



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2. As the pH value of a neutral solution increases

A. basic property decreases and number of

OH^- ions increases

B. acidic property increases and number of

H^+ ions decreases

C. basic property increases and number of

OH^- ions increases

D. acidic property decreases and number of

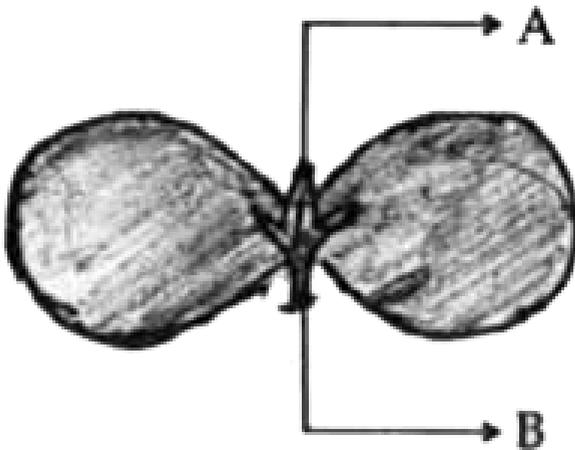
H^+ ions increases.

Answer:



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3. In the given figure of Cotyledon the parts labelled as A and B respectively are



A. fruit, shoot

B. primary shoot, primary root

C. secondary root, primary shoot

D. bud, leaf.

Answer:



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4. An object is kept at the centre of curvature of a concave mirror. The position and nature of the image formed is

A. between F and C and inverted

B. behind the mirror and erect

C. between F and P and erect

D. at the centre of curvature and inverted.

Answer:



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5. The power plant in which natural source of energy is directly used to rotate turbines is :

- A. thermal power plant
- B. hydro-electric power plant
- C. nuclear power plant
- D. solar power plant.

Answer:



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6. An example for saturated hydrocarbon is :





Answer:



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7. The incorrect statement related to thyroxine hormone among the following is :

A. it regulates fat metabolism

B. its deficiency leads to goitre

C. it is secreted by parathyroid gland

D. iodine in the food is essential for its
production.

Answer:



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8. 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



Answer:



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li Answer The Following Questions

1. An iron ring is to be coated with copper.

How can we do this without using electricity ?



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2. What is the SI unit of potential difference ?

Name the device used to measure the potential difference.



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3. "The rate of breathing in aquatic organisms is much faster than that seen in terrestrial organisms." Why?



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4. Sodium and potassium are placed in the same group of modern periodic table. If the molecular formula of sodium sulphate is Na_2SO_4 , So, then decide the molecular formula of potassium sulphate. Give reason for your answer.



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5. "Biogas plant is a boon to farmers. Why?"



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6. (a) How does speciation take place?

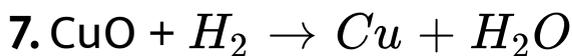
(b) Define the term gene.

(c) The gene for red hair is recessive to the gene for black hair. What will be the hair colour of a child if he inherits a gene for red colour from his mother and a gene for black

hair from his father? Express with the help of flow chart.



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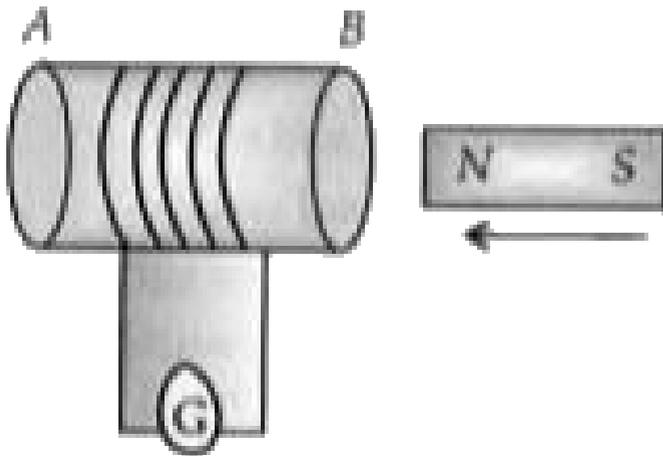
(i) in this reaction name the reaction :

(ii) that is reduced.



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8. Observe the given figure.



What type of current is induced in the coil by doing the experiment related to this figure ?

Give reason for your answer.



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iii Answer The Following Questions

1. Agricultural scientists have suggested to add a certain amount of lime powder to an agricultural field. What may be the reason for this ? Explain.



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2. "The body temperature of frogs and lizards depend on temperature in the environment". Justify.



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3. Draw the diagram of the apparatus to show that acid solution in water conducts electricity.

label the following parts :

(i) Dil. HCl solution

(ii) Rubber cork.

OR

Draw the diagram of arrangement of the apparatus to show the reaction of zinc granules with dilute sulphuric acid and testing hydrogen gas by burning, Label the following

parts :

(i) Test tube

(ii) Soap solution.

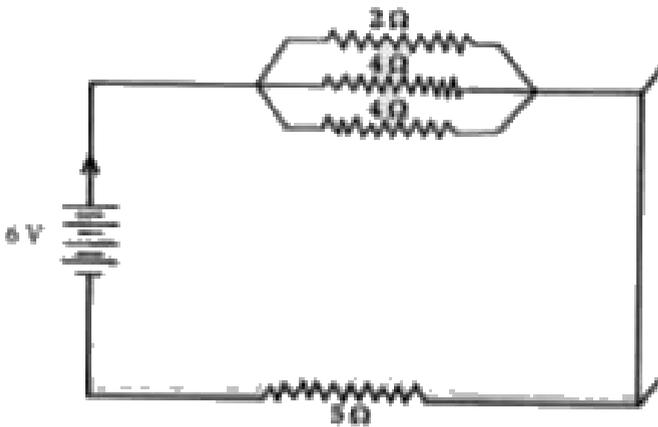


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4. The resistivity of manganese wire of length 1 m is $1.84 \times 10^{-6} \Omega \text{ m}$ at 20° C . If the diameter of the wire is $3 \times 10^{-4} \text{ m}$, what will be the resistance of the wire at that temperature ?

OR

Observe the given circuit :



Calculate the total resistance in the circuit and the total current flowing in the circuit.

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5. "As energy moves progressively through various trophic levels of food chain it is no

longer available to the previous level". Give reasons.



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6. Which physical properties of metals are used in the following situations ?

(i) Gold is used to make ornaments

(ii) Nickel is used in strings of guitar.



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7. Draw a diagram showing germination of pollen on, stigma of a flower.



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8. Draw the diagram of a simple electric generator. Label the following parts :

[i] Brushes [ii] Rings.



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iv Answer The Following Questions

1. State Joule's law of heating. Explain the working of electric filament bulb.

OR

State Ohm's law. How ammeter and voltmeter should be connected in electric circuit ? What is the use of these instruments, in the circuit ?



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2. The reaction of Barium chloride with Aluminium sulphate solution is an example for

which type of chemical reaction ? Why ? Write the balanced chemical equation for this reaction.



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3. Explain the significant function of each structure in human male reproductive system.

OR

Explain the structure and important role of placenta during pregnancy period of woman.



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



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5. "Building crescent shaped earthen embankment in level terrain is better than the construction of large dams across the river to

store water". Analyse this statement with their effects.



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6. An object is kept on the principal axis of a concave mirror of focal length 12 cm. If the object is at a distance of 18 cm from the mirror, calculate the image distance. Determine the nature of the image formed by calculating the magnification produced by the mirror.



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7. Draw the diagram showing the schematic sectional view of the human heart. Label the following parts :

(i) Aorta

(ii) Pulmonary veins.



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8. Draw the ray diagram when the object is kept between F_1 and $2f_1$ of the convex lens.

With the help of the diagram mention the position and nature of the image formed. [f_1 : Principal focus of the lens]



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9. The atomic numbers of two elements are 8 and 16 respectively. Write the electronic configuration of these two elements. Do you keep these two elements in the same group of the modern periodic table? Justify your answer. Find out which of these two elements

is more electronegative. Give reason for your answer.

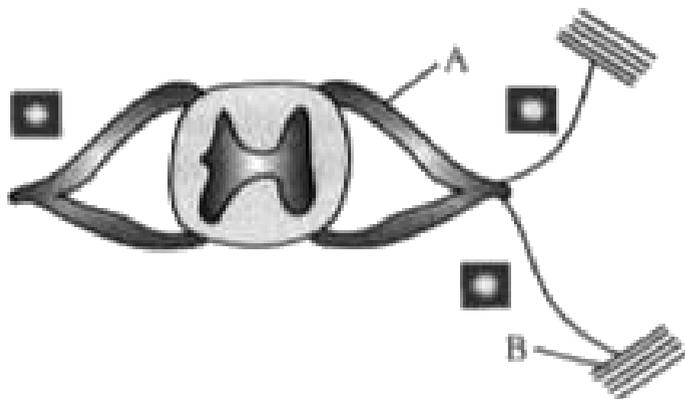


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V Answer The Following Questions

1. Name the given structure. What is its general function ? Mention the function of the parts labelled as A and B. These structures in animals are said to be more efficient to give

quick responses. Why ?



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2. Mention the difference between calcination and roasting. How these processes are used in the extraction of zinc? Explain with the help of

chemical equations. After these processes, is reduction necessary to obtain zinc ? Why ?



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3. How do you trace the magnetic field lines around a bar magnet using compass needle ? Explain. Write the properties of magnetic field Lines.



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4. The plants bearing round yellow coloured ($RrYy$) seeds are self pollinated. Represent the result obtained in the F_2 generation of dihybrid cross with the help of a checker board. Mention the varieties of plants obtained in F_2 generation.

OR

What is evolution ? Explain the three evidences for evolution.



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Vi Answer The Following Question

1. Explain the experiment conducted by Newton to show that white light contains seven colours. Sun appears red in colour during sunrise but appears white at noon. Explain with the reasons.



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