CHEMISTRY

BOOKS - CAMBRIDGE CHEMISTRY (KANNADA ENGLISH)

MOST LIKELY QUESTION PAPER- 8

I Answer The Following Questions

1. The sulphide ore among the following is

A. Haematite

B. Bauxite

C. Argentite

D. Zine blende

Answer: D

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2. Which of the following it most suitable for the core of electionmagnetics

A. Air

B. soft iron

C. steel

D. None of these

Answer: B

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3. Decomposers of ecosystem consists of

A. Organisms which make organic compound out of inorganic compounds

B. Organisms which use radiant energy to produce biomass

C. Certain blue green algae and algae

D. Certain fungi and bacteria.

Answer: D

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4. Phototropism is caused to differential distribution of

A. Abscisic acid

B. Gibberellin

C. Cytokinin

D. Auxin

Answer: D

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5. Most of the sources of energy we are represent stored solar energy. Which of the following is not ultimately derived from the sun's energy

A. Geothermal energy

B. Wind energy

C. Nuclear energy

D. Bio mass

Answer: C

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6. Which of the following represent N, molecules

A. $\overset{X}{\underset{X}{}}N \equiv N\overset{X}{\underset{X}{}}$

B. $\overset{XX}{\underset{XX}{N}} \equiv \overset{XX}{\underset{XX}{N}}$

C. $\overset{XX}{\underset{XX}{N}} \equiv \overset{XX}{\underset{XX}{N}}$

D. $\overset{XX}{\underset{X}{\overset{X}{\underset{XX}{N}}}} \equiv \overset{XX}{\underset{XX}{N\overset{X}{\underset{X}{}}}}$

Answer: A

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7. Galvanisation of iron means coating iron with

A. Zinc

B. nickel

C. copper

D. tin

Answer: A

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Ii Answer The Following Questions

1. What is the principle of an electric motor?

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2. Why does an aqueous solution of an acid conduct electricity ?

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3. Write a mathematical expression for Joule's law of heating, Name on device which work on this principle.

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4. How is the increase in demand for energy affecting our environment adversely?

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5. If a person is working on a treadmill in a gymnasium will it effect his rate of breathing ? How?

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6. When is the force experienced by current carrying conductor placed in a magnetic field largest ?

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7. What change will you obsenre if you test soap with litmus paper (red and blue)?

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8. Define Rancidity ?

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Iii Answer The Following Questions

1. Define the term functional group identify the functional group present in the following.

i) $H-\overset{\overset{O}{||}}{C}-H$ ii) $H-\overset{\overset{H}{|}}{\underset{\underset{H}{|}}{C}}-\overset{\overset{OH}{|}}{C}=O$

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2. Give the structural difference between saturated and unsaturated hydrocarbons with an example each.

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3. Draw the diagram of an electric circuit in which the resistors R_1, R_2 and R_3 are connected in parallel including an ammeter and a voltmeter and mark the direction of the current.

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4. Name the part of the eye where image is formed by the eye lens. What is the nature of

the image formed ? How is their sent to the brain ?

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5. How are the alveoli designed to maximise the exchange of gases?

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6. How is the amount of urine produced regulated ?

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7. Draw a diagram of testing the conductivity of a salt solution.

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8. Distinguish between renewable and non-renewable sources of energy,

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9. Draw the diagram showing longitudinal section of a flower and label the part where pollination takes place

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10. Describe two examples of different oxidations of ethanol. Name the products obtained in each case

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Iv Answer The Following Questions

1. The atomic number of Na and Mg is 11 and 12 respectively and they belong to the same period.

a) Which one would have smaller atomic size.

b) Which one would be more electropositive.

c) To which group would each one belong.

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2. What were the limitations of Dobreiner's classification?

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3. What is meant by sustainable management ? The environmentalist are insisting upon "Sustainable natural resource management" State its four advantages.

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4. A 4cm tall object is placed perpendicular to the principal axis of a convex lens of focal length 24 cm. the distance of the object from the lens is 16 cm. Find the position, size and nature of the image formed using the lens formula.

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5. Define the power of lens. What is the meaning of "the power of lens is 1 dioptre" if the power of a lens -2.0D, then what type of

lens is that? when an object is kept at infinity from this type of lens, what is the size of the image formed.

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6. Draw the diagram showing the sectinal view of the human heart.

Label the following parts.

(i) Aorta

(ii) Chamber of the heart that receives deoxygenated blood.

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7. Write equations for the reactions.

(i) Iron with steam

(ii) Calcium and potassium with water

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8. a) What is thermite reaction ?

b) Q is an element which is one in copper, zinc, aluminium and iron, its properties are as follows.

i) Q_2O_3 is found in nature but not affected by water.

ii) Two chlorides with formula QCI_2 and QCI_3 are formed by the metal. Identify the metal

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9. Draw the ray diagram showing the image formation by a convex lens, when the object is kept beyond 2F, with the help of the diagram mention the nature of the image formed.

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10. What is the function of receptors in our body? Think of situations where receptors do not work properly. What problems are likely to arise?

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11. a) Name the hormone secreted by an endocrine gland during emergency.

b) Compare and contrast nervous and

hormonal mechanism for control and co-ordination in animals ?

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12. Write the chemical equation of the reaction with an example each in which the following change has taken place:

(i) Change in colour

(ii) Change in temperature

(iii) Formation of precipitate.

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13. State the principle of an electric generator. Write any two differences between electric motors and electric generators.

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V Answer The Following Questions

1. An electric geyser rated 1500W, 250 V is connected to a 250v line mains. Calculate the electric current drawn by it, energy consumed

by it in 50 hours and energy consumed if each unit coast Rs. 6.00.

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2. Write the differences between homologous organs and analogous organs.

(ii) Write tlie dilferences between the sex chromosomes of man and sexchromosones of woman.

(iii) Sex of achildis determined by the latler. How?

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3. a) What is meant by the term speciation. List four factors which could lead to speciation.

b) Name the two laws of inheritance postulated by Mendel.

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4. Why does the sun appear reddish early in the morning. Why does the sky appear dark instead of blue to an astronaut.

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5. How is plaster of paris prepared?

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Vi Answer The Following Question

1. a) List any four reasons for adopting contraceptive methods.

b) If a woman is using copper - T will it help in

protecting her from sexually transmitted diseases Why?

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