CHEMISTRY

BOOKS - CAMBRIDGE CHEMISTRY (KANNADA ENGLISH)

MOST LIKELY QUESTION PAPER- 7

I Answer The Following Questions

1. The organ which perform different function but have the same basic structure are called.

A. Vestigal organ

B. Analogous organs

C. Homologous organs

D. Analytic organs

Answer: 3

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2. Identify the correct statement among the following with respect to plant hormones.

A. Cytokinin promotes wilting of leaves.

B. Auxin inhibits stem elongation

C. Abscisic acid inhibits growth of plants

D. Gibberillin promotes falling of leaves.

Answer: 3

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3. The watershed management

A. Increases drought and floods

B. Increases producation and income of the watershed community

C. Dccrcases the biodversity of the downstream reservoirs.

D. increases deforestation

Answer: 2

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4. pH of ammonium chloride (NH_4CI) or copper sulphate ($CuSO_4$) solution be

A. 7

B. > 7

C. < 7

D. 0

Answer: 3

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5. Which of the following has a triple bond.

A. C_2H_6

B. C_3H_4

C. C_3H_8

D. C_3H_6

Answer: 2

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6. Characters transmitted from parents to offspring are present in

A. Cytoplasm

B. Ribosomers

C. Golgicomplex

D. Genes

Answer: 4

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7. What is that instrument which can detect the presence of electric current in a circuit.

A. Galvanometer

B. Motor

C. Generator

D. None of above

Answer: 1

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8. Aluminium is used for making cooking utensils. Which of the following properties of aluminium responsible for the same

i) Good thermal conductivity ii) Good electrical conductivity iii) Ductility iv) High melting point

A. A) (i) and(ii)

B. B) (i) and (iii)

C. C) (ii) and (iii)

D. D) (i) and (iv)

Answer: 4

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Ii Answer The Following Questions

1. Meat is easier to digest as compared to grass. Why?

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2. Define accommodation of an eye ?

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3. What happens if fallopian tube is blocked ?

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4. Convex mirror is commonly used as rear view mirror in vehicles. Why?

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5. What is meant by the statement that the rating of fuse in a ciruit is 5A.

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6. List any two causes for the failure of sustained availability of ground water

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7. What is the role of the seminal vesicles and the prostate gland?

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8. What happens when magnesium ribbon burns in air?

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Iii Answer The Following Questions

1. Why is an ammeter always connected in series in a circuit? What change do you observe in the reading of an ammeter if it is connected in parallel in a circuit?

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2. a) Define electric power express it in terms of potential difference V and resistance R.

b) What is meant by saying that the potential difference between two points is 1V?

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3. Draw a diagram of an excretory system in human beings.

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4. Explain the cause of shoots of the plants bending towards light.

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5. 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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6. Variations that confer an advantage to an individual organism only will survive in

population. Justify.

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7. List the three kinds of blood vessels of human circulatory system and write their functions in tabular form.

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8. Why is it necessary to separate oxygenated and deoxygenated blood in mammals and

birds.

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9. 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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Iv Answer The Following Questions

1. Mention why is it not possible to make use of solar cells to meet all our energy needs. State three reasons to support your answer. Also mention three uses of solar cells.

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2. Compare and contrast fossil fuels and the sun as direct energy sources.

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3. 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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4. Explain the breakdown of glucose in aerobic respiration and anaerobie respiration.

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5. Explain the process of transportation of substances in phloem.

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6. a) Why do stars twinkle

b) State two properties of the image formed by the eye lens on the retina.

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7. Draw a neat diagram of action of steam on a metal label the following parts. i) Metal sample ii) Delivery tube.

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8. i) What is geneties?

ii) Give the common name of a plant on which Mendel performed its experiments.

iii) What for did Mendel use the term factors and what are these factors called now?

iv) What are genes ? Where are the genes located?

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9. a) Define evalution? Describe the contribution of landmark.

b) How do homologous organs provide evidence in support of evolution ?

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10. a) What are trophic levels ?

b) What will happen if we kill all organisms in one tropic level.'

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11. a) State the principle of an electric generator

b) Write the difference between direct current and alternating current.

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12. a) What is a universal indicator ?

b) A milk man adds a very small amount of baking soda to fresh milk.

i) Why does he shift the pH of the fresh milk from 6 to slightly alkaline.

ii) Why does this milk take a long time to set as curd.

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

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1 Answer Thefollowing Questions

1. When we say the resistors are in parallel ? Write the expression for the resistors in parallel. How many 176Ω resistors (in parallel) are required to carry on a 220V line ?

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2. a) List any three observation that determine that a chemical reaction has taken place. Also list three in formation that cannot be obtained about a chemical reaction merely by its chemical equation.

b) Balance the following chemical equations i)

$Fe + H_2O \rightarrow Fe_3O_4 + H_2$

ii) $CO_2 + H_2O \rightarrow C_6H_{12}O_6 + O_2$

OR

a) Explain the following in terms of gain or

lose of oxygen with two examples each. i) Oxidation ii) reduction.

b) Balance the following chemical equations. 1)

$HNO_3 + Ca(OH)_2 \rightarrow Ca(NO_3)_2 + H_2O$

ii) $NaOH + H_2SO_4 \rightarrow Na_2SO_4 + H_2O$

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3. (a) Why did Mendeleev have gaps in his periodic table ?

(b) State any three limitations of Mendeleev's classification ?

(c) How does electronic configurations of atoms change in a period with increase in atomic number?

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4. a) State the two laws of reflection of light

b) The refractive indices of four media A, B, C & D are given in the following table.

If light travels from one medium to another in

which case the change in speed will be i) minimum ii) maximum

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5. a) What is hydrogenation? What is its industrial application.

b) Give the names of the following

i) An aldehyde derived from ethane.

ii) Ketone derived from butane

iii) Compound obtained by the oxidation of ethanol by chromic anhydride.

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