



**SUB : Science II**

**Preliminary Exam : 2**

**Std : 10<sup>th</sup>**

**Marks: 40**

**Time : 3 Hrs**

- Note :
- 1) All questions are compulsory.
  - 2) Figures to the right indicate full marks.
  - 3) Draw well labeled diagrams wherever necessary.
  - 4) Students should write the answers in sequence.

**Q.5 A. 1) Fill in the blanks and rewrite the sentences in answersheet.**

**(2)**

- i) ..... is stored under kerosene.
- ii) Benzene ring is made up of ..... carbon atoms.

**2) Find the odd one out, give reason for your answer.**

**(2)**

- i) Gold, silver, mercury, bromine.
- ii) Root, Stem, Leaf, Flower.

**3) Name the following :** Materials that can be recycled.

**(1)**

**B) Multiple choice questions.**

**(5)**

- 1) Metals like potassium and sodium react vigorously with .....  
(a) cold water (b) water at 40 C (c) hot water (d) water vapour
- 2) ..... bond is formed by transfer of electrons.  
(a) Covalent (b) Ionic (c) Co-ordinate (d) Weak.
- 3) The energy released during cellular respiration is immediately used to synthesize....., which is used to fuel all other activities.  
(a) ADP (b) ATP (c) NADH (d) AMP
- 4) During asexual reproduction, cells divided by the process of .....  
(a) mitosis (b) meiosis (c) fertilization (d) double fertilization
- 5) E-waste is considered as ..... to human life.  
(a) hazardous (b) useful (c) beneficial (d) helpful

**Q.6. Answer the following questions. (Any 5)**

**(10)**

- 1) Write two methods to prevent rusting of iron.
- 2) State any four physical properties of ethanol.
- 3) Is there a difference between an inanimate object and a dead object? If yes, state the difference.
- 4) Write a short note on : co-ordination in plants.
- 5) What are the functions of following organs in reproduction:  
a) Stigma b) ovaries
- 6) Give scientific reason: Paleontological evidence suggests that invertebrates came into existence before the vertebrates.

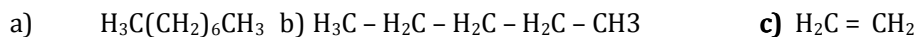
**Q.7. Answer the following questions. (Any 5)**

**(15)**

- 1) Draw the neat labeled diagram of extraction of aluminium.



2) Write the IUPAC names for the following.



3) Describe the process of vegetative propagation in plants.

4) Explain the basic principle behind Mendel's experiment.

5) Write any four types of evidences to support organic evolution. Explain any two out of four you have answered.

6) Write three measures to conserve water.

**Q.8. Answer the following questions.**

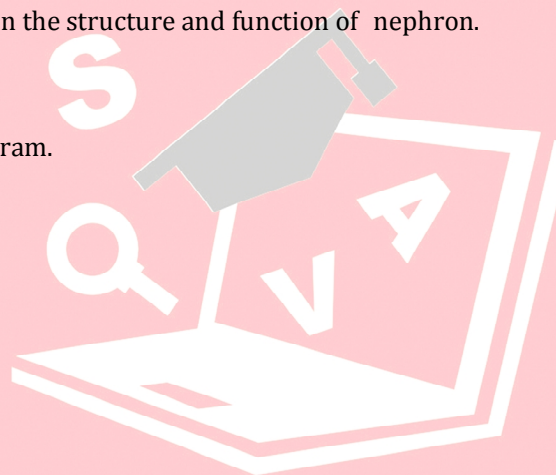
Draw a neat labeled diagram of nephron. Also explain the structure and function of nephron.

**OR**

Explain the process of reflex action with labeled diagram.

**(5)**

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