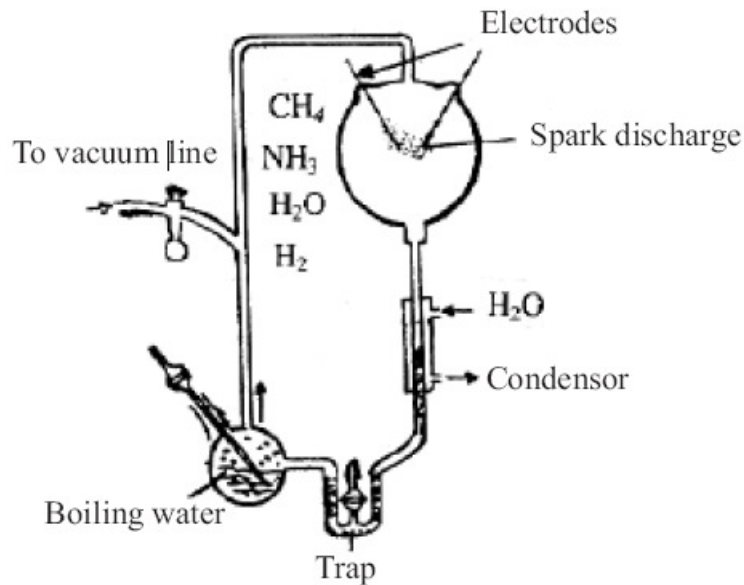


National Institute of Open Schooling
Lesson 1- Origin and Evolution of Life and Introduction to Classification
Worksheet-1

1. This figure is related to origin of life on earth. Answer the following questions:



- a. Name the scientist who proposed this experiment.
 - b. What did he confirmed from this experiment?
 - c. What is coacervates?
 - d. How did they confirmed the chemosynthetic theory of evolution. Explain
2. Charles Darwin had given a statement, “ in organic evolution , the nature selects for greater reproduction only the organisms suited to live in their environment”. Give reasons in support of your answer.
 3. “Evolution is a slow and gradual process. “ Do you agree or not . Explain your views about its favour and against both.
 4. “Industrial melanism is a good example of natural selection in action” Justify this statement.
 5. Two squirrel’s species live on opposite side of the Grand Canyon show similar adaptive process. Describe the phenomenon and justify how they give evidences for evolution.
 6. Identify the figure and answer the following:



- a. Name the organisms
 - b. Give its class
 - c. It has connected with evolution evidences. Give reason in support of your answer.
7. A cat is called billi in Hindi, biral in Bengali and Chat in French. Give reasons to support to your answer, why are scientific names considered better than common name.
8. Differentiate between following pairs :
- a. Homologous and analogous organisms
 - b. Natural selection and mutation
 - c. Isolation and speciation
9. What is the role of vestigial organs in our ancestors and in our life? Give reasons in support of your answer with examples.
10. 'Biologist use structural features to classify organisms.' Give reasons to justify your arguments.